

Manual for product lifetime methodology and the associated plastic toolkit

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Table of Contents

Introduction	4
1. Collecting data	6
2. Entering trade and production data into Plastic POM Tool	7
2.1 Entering import and export data	9
2.2 Entering domestic production data	11
3. Plastic POM results.....	13
4. Entering data into Plastic Waste Generated Tool.....	14
5 Plastic waste generated results.....	18
Annex 1: Plastic-KEY classification	19
Annex 2: Methodology for calculating plastic POM	21
Annex 3: Methodology for calculating plastic waste generated.....	22
Annex 4: Brief guidance on data collection	23
Annex 5: Correspondence table between HS codes and the Plastic-KEYs.....	24
Annex 6: Correspondence table between CPC codes and the Plastic-KEYs	38
Annex 7: Polymer composition of different Plastic-KEY Groups	42

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Abbreviations

CPC	Central Product Classification
HS	Harmonized System
POM	Put on Market
PE	Polyethylene
PET	Polyethylene terephthalate
PP	Polypropylene
PS	Polystyrene
PVC	Polyvinyl chloride
PUR	Polyurethane

Introduction

This manual provides integrated guidance on the product lifetime methodology introduced in *“Practical Guidance on the Development of Inventories of Plastic Waste”* (UNEP, 2022), along with its associated plastic toolkit, collectively referred to as the toolkit throughout this document. It explains how the methodology is implemented within the toolkit and offers step-by-step instructions for its practical application.

The toolkit was developed by UNITAR and includes two main tools: the Plastic Embedded POM Calculation Tool (referred to hereafter as the Plastic POM Tool) and the Plastic Waste Generated Calculation Tool (referred to hereafter as the Plastic Waste Generated Tool). These tools were developed in Excel 2019 as “.xlsm” (macro-enabled) spreadsheets and were intentionally designed to be as simple as possible to ensure usability across different platforms. They are also downward compatible with earlier versions of Excel. The tools are intended to assist users in developing plastic waste inventories.

To support this process, the toolkit incorporates a structured classification system called Plastic-KEYs, developed by UNITAR. Plastic-KEYs facilitate the compilation of plastic statistics and help map the connections between plastic consumption and waste management. It is used throughout the toolkit to streamline and standardize the calculation process.

As a classification system, Plastic-KEYs are designed so that items within a single Plastic-KEY share the following characteristics:

Similar function, comparable material composition, and related end-of-life attributes
Homogeneous average weight and lifetime distribution.

The Plastic-KEYs are aggregated into eight Plastic-KEY Groups (UNEP, 2022):

- P1 Packaging
- P2 Transport
- P3 Building and construction
- P4 Electrical and electronic equipment
- P5 Consumer and institutional products
- P6 Industrial machinery
- P7 Apparel and textile furnishing articles
- P8 Other

The toolkit was developed to facilitate the estimation of plastic POM and plastic waste generated in six out of eight Plastic-KEY Groups: P1 Packaging, P2 Transport, P3 Building and construction, P5 Consumer and institutional products, P7 Apparel and textile furnishing articles, and P8 Other. The Plastic-KEYs and their corresponding Plastic-KEY Groups are listed in Annex 1.

The Plastic POM Tool is an integral part of the methodology used to calculate the total amount of plastic put on the market (POM), including plastic products (entirely made of plastic) and plastic embedded in plastic-containing products. The Plastic POM Tool estimates plastic POM by Plastic-KEY and Plastic-KEY Group, disaggregated by plastic polymer type (i.e., PE, PP, PS, PVC, PET, PUR, and other

polymers) using the apparent consumption methodology. Further details about the methodology are provided in Annex 2.

The Plastic Waste Generated Tool estimates the total amount of plastic waste generated, with results disaggregated by Plastic-KEY Group and plastic polymer type. More detailed information is available in Annex 3.

The two tools work together in such a way that the output of the Plastic POM Tool serves as input for the Plastic Waste Generated Tool, as shown in Figure 1.

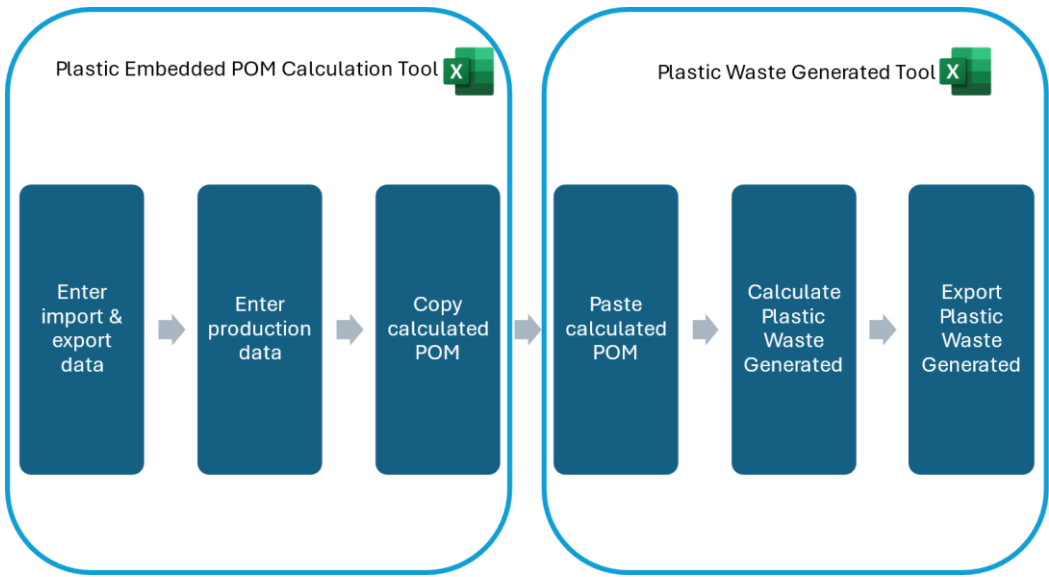


Figure 1 Recommended workflow for using the toolkit

Figure 2 presents the overall structure of the toolkit, with the built-in parameters (plastic fraction, polymer composition, and product lifetime), and the equations to calculate plastic POM and plastic waste generated. More details are discussed in the following chapters.

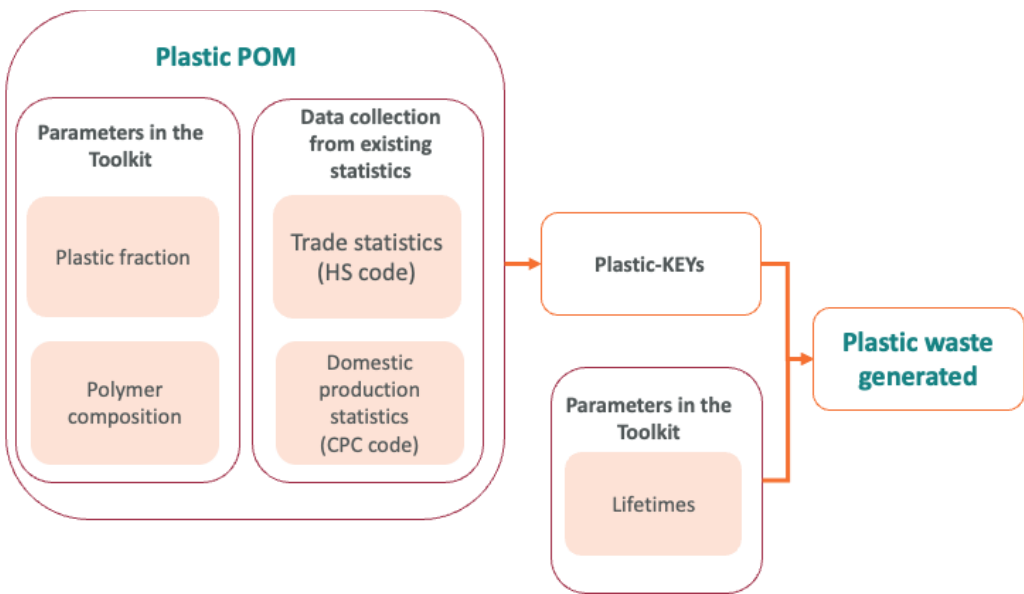


Figure 2 The structure of the toolkit

1. Collecting data

To apply the toolkit effectively, the first step is to collect trade and production data. The trade data is listed in Harmonized System (HS) codes, and the production data is listed in Central Product Classification (CPC) codes.

- Collecting data on trade. To view the trade data required, click the **Input import/export data** button in the Plastic POM Tool. This action will open the 'Input_HScode' sheet, which serves as the data entry sheet for trade-related information. The list of HS codes described in the sheet corresponds to plastic or plastic-containing products represented by Plastic-KEYs. The data can be obtained from official national trade statistics or retrieved from the UN Comtrade Database [UNComtrade](#) at the global level.
- Collecting data on production. Similarly to the trade data, there is also a list of CPC codes for production data (found in the 'Input_CPCcode' sheet, accessed by clicking the **Input domestic production data** button in the Plastic POM Tool), which describes the data that should also be gathered. The production data can be retrieved from national statistical offices, and [Industrial Commodity Statistics Database from the United Nations Statistics Division](#).

Please note that these tools are designed to work best when using data from multiple consecutive years (the Plastic POM tool allows inputs starting from the year 1980).

Where possible, collect or prepare data using the HS and CPC classification systems, with units measured in **kilograms (kg)**. The Plastic POM Tool is designed to process other units and automatically convert them to weight (tonnes) using built-in parameters and embedded logic. While it relies on default parameter values, users are encouraged to adjust these based on nationally sourced data.

As indicated in Figure 2, plastic fraction is one of the most important parameters. The plastic fraction represents the mass percentage of plastics in different products. It is an important factor when estimating the plastic embedded in the products. **Surveys of product manufacturers** can be a useful data source. More guidance on data collection can be found in Annex 4.

2. Entering trade and production data into Plastic POM Tool

The tool contains 17 different sheets. All of them are essential for the proper functioning of the tool. Most sheets are hidden by default to prevent accidental changes, which will cause wrong calculations. The table 1 presents the different sheets of the Plastic POM Tool and explains their purpose.

Table 1 Overview of sheets in the Plastic POM Tool

Sheet name	Description
FrontPage	User interface
POM_to_Tool_imp utations	The substitution of estimated values for missing or inconsistent data items
POM_APP_CONS_P EM	Time series (1980-2030) POM data per Plastic-KEY
POM_by sector by polymer	Plastic POM by polymer type in different Plastic-KEY Groups
POM_to_Tool	The final calculation results of POM POM_to_Tool is the input sheet to the Plastic Waste Generated Tool.
<i>The following sheets are hidden and can be made visible by clicking the Show Sheets button on the 'FrontPage' sheet.</i>	
HS_PlasticKEY	Correspondence tables of HS codes and Plastic-KEYs, and CPC codes and Plastic-KEYs
Input_HScode	Sheet is used for entering plastic import and export data based on the HS codes of the country under investigation
Weight_Year_HS	Average weight and plastic fraction of plastic product per HS code for a chosen year Sheet is used for converting plastic import and export data from "piece/unit" and other units to tonnes
Input_CPCcode	Sheet is used for entering plastic domestic production data based on the CPC codes of the country under investigation
Weight_Year_CPC	Average weight and plastic fraction of plastic product per CPC code for a chosen year Sheet is used for converting plastic domestic production data from "piece/unit" and other units to tonnes
Import_timeseries_ PEM	Time series import data per HS code
Export_timeseries_ _PEM	Time series export data per HS code

CPC_timeseries_PEM	Time series domestic production data per CPC code
PlasticKEY by sector by polymer	Polymer composition of each Plastic-KEY
CPC_PlasticKEY_PEM	Time series domestic production data per Plastic-KEY
Import_PlasticKEY_PEM	Time series import data per Plastic-KEY
Export_PlasticKEY_PEM	Time series export data per Plastic-KEY

Do not **relocate**, **insert**, or **change** the individual order of the sheets in the Plastic POM Tool. This will result in the malfunction of the **Show Sheets** action button on the 'FrontPage' sheet. All other sheets are used for data storage, calculations, intermediate results and must not be modified by the user.

In order to prevent accidental changes to certain sheets, some sheets are hidden by default. However, it is possible to make these sheets visible by clicking on the **Show Sheets** button. Clicking on the **Hide Sheets** button will hide the sheets again and only 5 out of 17 sheets will be unhidden.

When data points are missing or incorrect, the user can use the 'POM_to_Tool_imputations' sheet to make modifications.

The 'FrontPage' sheet (see Figure 3 – the first sheet of the Plastic POM Tool with a user interface) contains four buttons that allow the user to perform all necessary actions.

Figure 3 The 'FrontPage' sheet in the Plastic POM Tool

2.1 Entering import and export data

The user should enter the country's plastic import and export data by clicking the button **Input export/import data** on the 'Front Page' of the tool. Once the user has clicked the button, a pop-up window (Figure 4) will appear requesting the user to specify the year of the data being entered into the Plastic POM Tool. The year should be entered as a four-digit number (e.g. 1995). Valid years are from 1980 to 2030.

Figure 4 Pop-up window for 'Input export/import data' button

Once the year is specified, the user is automatically redirected to the 'Input_HScode' sheet.

Step 1: Enter import and export data

The user should enter data into import (column "C") and export (column "D") per HS code (column "A") as seen in Figure 5 (columns highlighted in red and green). Data must be numeric values.

Note: Import and export data must be entered for each HS code. If there is no import or export of a specific HS code, enter a value of 0 (zero).

A	B	C	D	E	F	G	H	I
Input Import and Export Data according to HS Codes for the year 2020								
HS	Full name	IMPORT	EXPORT	UNIT (fro	Possible Units			
110412	Cereal grains; rolled or flaked, of oats			kg	p/unit	or	kg	
110419	Cereal grains; rolled or flaked, other than oats			kg	p/unit	or	kg	
110422	Cereal grains; worked (e.g. hulled, pearled, sliced or kibbled) of oats			kg	p/unit	or	kg	
110423	Cereal grains; worked (e.g. hulled, pearled, sliced or kibbled) of maize (corn)			kg	p/unit	or	kg	
110429	Cereal grains; worked, other than rolled or flaked (e.g. Hulled, pearled, sliced or kibbled) of cereals			kg	p/unit	or	kg	
110430	Cereal; germ of cereals, whole, rolled, flaked or ground			kg	p/unit	or	kg	

Figure 5 Filling in import and export data

Step 2: Select Data Unit

Column "E" contains the unit of import and export data (see Figure 5, highlighted in orange). For each HS code, a prefilled standard unit is provided for the user. However, the user has the option of using the units illustrated in columns "G" and "I" as well (see Figure 5, highlighted in blue). For ease of use, the unit 'kg' is preferred.

Step 3: Verify data and continue

To confirm import and export data in the Plastic POM Tool, click the **Continue** button. The data (i.e. column “C” and “D”) and unit (i.e. column “E”) are then verified for completeness and valid numbers.

Step 4 (if needed): Handle errors

If invalid input is found, an error message will be presented as shown in Figure 6.

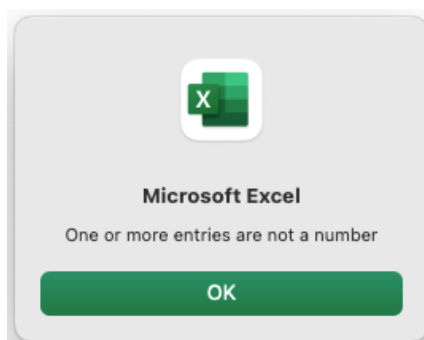


Figure 6 Example of an error message for invalid entries

For columns “C” (import) and “D” (export), a value will be considered an “invalid value” if it is not a numeric character (e.g. “.”, “@”, “/”, “%”, etc). For column “E”, a value will be considered incorrect when the unit or format differs from the options provided in columns “G” and “I”. If an error message appears, press 'OK', then correct any invalid values and click the **Continue** button again.

Step 4.1 (if needed): Handle #VALUE! error in column “L” and “M”

Due to uncertainty regarding global averages, not all HS codes are provided with an average weight. As a result, if units other than kilograms (kg) are selected in column “E”, the user may encounter a #VALUE! error in columns “L” or “M”. This indicates that the tool is unable to perform a conversion to tonnes due to missing data for that specific unit-HS code combination.

To resolve the “#VALUE!” error:

- Assume an average weight for the specific HS code;
- Calculate the total weight using the formula:
Total weight = average weight * quantity (in units, liters, square meters, etc.);
- Enter the total weight (in kg) in columns C and D, and use kg as the unit in column E for this HS code.

For example, when entering "p/unit" in column E for HS code 110412 (Cereal grains; rolled or flaked, of oats), columns “L” and “M” display “#VALUE!”. To resolve this issue, users need to determine the average weight of one unit of rolled or flaked oats in their country. Suppose in country A, the average weight is 0.6 kg per unit, and official statistics show that 10,000 units were imported that year. The total weight for HS code 110412 in Country A would then be: 0.6 kg/unit × 10,000 units = 6,000 kg. Users should enter 6,000 in column “C” and kg in column “E” for HS code 110412.

After making the aforementioned correction, the user can proceed to click the **Continue** button again.

Step 5 (optional): Cancel data input

To cancel data entry, click the **Cancel** button. A confirmation pop-up window (Figure 7) will appear. If the user selects 'Yes', they will be returned to the 'FrontPage' sheet.

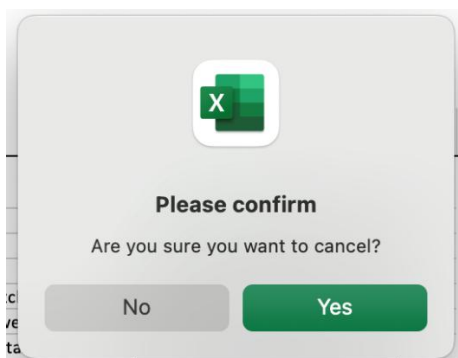


Figure 7 Pop-up window for canceling the input

Once the information is validated and confirmed to be in the correct format, the Plastic POM Tool automatically converts the data to tonnes, stores it in the 'Import_timeseries_PEM' and 'Export_timeseries_PEM' sheets, and aggregates it by Plastic-Key for storage in the 'Import_PlasticKEY_PEM' and 'Export_PlasticKEY_PEM' sheets. After these steps are completed, the user will receive a confirmation message indicating that the data has been stored successfully and will be redirected to the 'Frontpage' sheet (user interface).

2.2 Entering domestic production data

The user should enter the country's plastic domestic production data by clicking the **Input domestic production data** button on the 'FrontPage' sheet. Once the user has clicked the button, a pop-up window (Figure 8) will appear requesting the user to specify the year of data being entered into the Plastic POM Tool. The year should be entered as a four-digit number (e.g. 1995). Valid years are from 1980 to 2030.

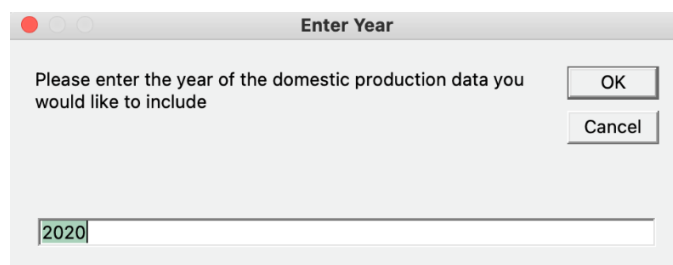


Figure 8 Pop-up window for Input domestic production data button

Step 1: Enter production data

Once the year is specified, the user is automatically redirected to the 'Input_CPCcode' sheet where they should enter domestic production (column "C") data per CPC code (column "A") as seen in Figure

9 (The CPC code is highlighted in green, the input column is highlighted in red). **Note:** production data must be entered for each CPC code. If there is no production of a specific CPC code, enter a value of 0 (zero).

A	B	C	D	E	F	G	H
Input of Domestic Production Data according to CPC codes for the year 2020							
Code No.	Description	DOMESTIC PRODUCTION	UNIT (from Act	Possible Units			
21321	Tomato juice		kg	p/unit	or	kg	
21329	Other vegetable juices		kg	p/unit	or	kg	
21431	Orange juice		kg	p/unit	or	kg	
21432	Grapefruit juice		kg	p/unit	or	kg	
21433	Pineapple juice		kg	p/unit	or	kg	
21434	Grape juice		kg	p/unit	or	kg	

Figure 9 Filling in domestic production data

Step 2: Select data unit

The user should specify in column “D” the units of the domestic production data (see Figure 9, highlighted in orange). The Plastic POM Tool provides the user with a prefilled standard unit (i.e. units in column “D”), however, the user has the option of using the units illustrated in columns “F” and “H” as well (see Figure 9, highlighted in blue).

Step 3: Verify data and continue

To confirm the domestic production data in the Plastic POM Tool, click on the **Continue** button. The data (inserted in column “C”) and unit (inserted in column “D”) are then verified for completeness and valid numbers.

Step 4 (if needed): Handle errors

If invalid input is found, an error message will be presented as shown in Figure 6. For column “C” (domestic production data), a value will be considered “invalid value” if it is not a numeric character (e.g. “.”, “@”, “/”, “%”, etc). For column “D” (unit), a value will be considered incorrect when the unit or format differs from the options provided in columns “F” and “H”. If an error message appears, press ‘OK,’ then correct the invalid values and click the **Continue** button again.

Step 5 (optional): Cancel data input

In case the user wishes to cancel data inputs, the **Cancel** button should be pressed. In that case, a pop-up (Figure 7) will be shown. If the user selects ‘Yes’, they will be returned to the ‘FrontPage’ sheet.

Once the information has been validated and found in the correct format, the Plastic POM Tool will automatically convert the data in **tonnes** per CPC code and Plastic-KEY and store it in ‘CPC_timeseries_PEM’ and ‘CPC_PlasticKEY_PEM’ sheets, respectively. Afterwards, the user will be redirected to the ‘Frontpage’ sheet (user interface).

3. Plastic POM results

After entering the data on imports, exports, and production, the calculation of plastic POM has been done automatically by the Plastic POM Tool.

In the Plastic POM Tool, after entering the trade and production data, all consolidated information can be found in:

- “POM_to_Tool” sheet: POM calculation results of plastic embedded in products. **This sheet must be copied and pasted directly to ‘POM’ sheet in the Plastic Waste Generated Tool explained below.**
- “POM_by sector by polymer” sheet: Plastic embedded POM by polymer in different Plastic-KEY Groups.

The polymer composition is calculated with the Plastic-KEY Group average composition, as shown in Annex 7.

Prior to inserting the plastic POM data into the Plastic Waste Generated Tool, it is of paramount importance to perform a statistical analysis of the obtained data to check its reliability and accuracy. The statistical analysis should, as a minimum criterion, include the following:

- detection of possible outliers;
- imputation steps for missing data points;
- analysis of the trends of the time series.

4. Entering data into Plastic Waste Generated Tool

The Plastic Waste Generated Tool contains 18 different sheets. All of them are essential for the proper functioning of the tool. Most sheets are hidden by default to prevent accidental changes, which would cause calculations to fail or return incorrect results. The table 2 presents the different sheets of the Plastic Waste Generated Tool and explains their purpose.

Table 2 Overview of the sheets in the Plastic Waste Generated Tool

Name of the sheet	Description
FrontPage	User interface
Indicators	Table displaying a summary of the quantities for each indicator (Plastic POM and Plastic waste generated).
POM	Table is used to input a country's plastic POM data, copied from the 'POM_to_Tool' sheet in the Plastic POM Tool.
POM_Plastic_Sector	Plastic POM by polymer type in different Plastic-KEY Groups
WG_Plastic_Sector	Plastic waste generated by polymer type in different Plastic-KEY Groups
GraphPOM_Plastic_Sector	Graph illustrating plastic POM per Plastic-KEY Group
GraphPOM_type_of_plastic	Graph illustrating plastic POM per polymer type
Graph_WG_Plastic_Sector	Graph illustrating plastic waste generation per Plastic-KEY Group
Graph_WG_type_of_plastic	Graph illustrating the plastic waste generated per polymer type
<i>The following sheets are hidden and can be made visible by clicking the Show Sheets button on the 'FrontPage' sheet.</i>	
Plastic Waste Generated	Calculation results of plastic waste generated per Plastic-KEY
GraphLifespan	Graph illustrating the lifespan of the Plastic-KEY Groups
mean	Mean parameter is used in the Gauss distribution for the calculation of plastic waste generated (per PlasticKEY) (Do not modify)
std dev	Standard deviation parameter is used in the Gauss distribution for the calculation of plastic waste generated (per Plastic-KEY) (Do not modify)
Gauss	Gauss distribution for the calculation (Do not modify)
POM_copy	Copy of the original POM data from the 'POM' sheet (Do not modify)
mean_copy	Copy of the original mean parameters included in the 'mean' sheet (Do not modify)
std dev_copy	Copy of the original standard deviation parameters included in the 'std dev' sheet (Do not modify)
conversion	Polymer composition of Plastic-KEY Groups (Do not modify)

Do not **relocate**, **insert**, or **change** the individual order of the sheets in the Plastic Waste Generated Tool. This will result in the malfunction of the **Show Sheets** action button on the 'FrontPage' sheet. All other sheets are used for data storage, calculations and intermediate results and must not be modified by the user.

In order to prevent accidental changes to certain sheets, the tool has hidden sheets by default. However, it is possible to make these sheets visible by clicking the **Show Sheets** button. Clicking the **Hide Sheets** button will hide the sheets again, and only 9 out of 18 will be unhidden.

The 'FrontPage' sheet (see Figure 10 – the first sheet of the Plastic Waste Generated Tool and user interface) contains four buttons that allow the user to perform all necessary actions.

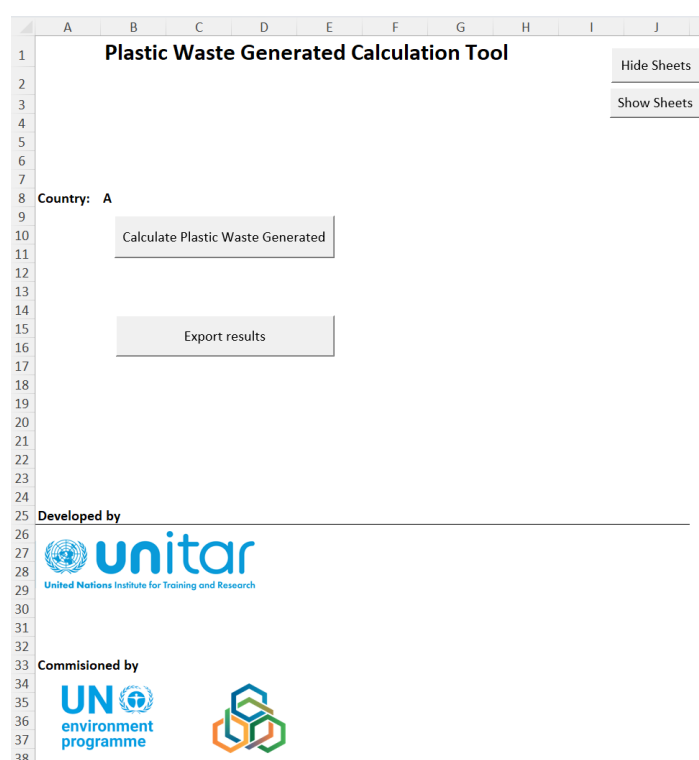


Figure 10 The 'FrontPage' sheet in the Plastic Waste Generated Tool

Step 1: Ensure the POM data is prepared

Follow the steps as described in [2.1 Entering import and export data](#) and [2.2 Entering domestic production data](#) for all years of interest to populate the "POM_to_Tool" sheet.

Step 2: Copy and paste POM data into the Plastic Waste Generated Tool

Once the user has estimated the plastic POM using the Plastic POM Tool, they can copy data from the 'POM_to_Tool' sheet and paste it into the 'POM' sheet in the Plastic Waste Generated Tool.

Please note that when pasting data from the sheet 'POM_to_Tool' to the Plastic Waste Generated Tool, select "Paste Special" and then "Values".

Step 3: Calculate plastic waste generated

After completing the 'POM' sheet, users can initiate the calculation of plastic waste generation by clicking the **Calculate Plastic Waste Generated** button on the 'FrontPage' sheet. It is recommended not to use or open any other program once the button has been pressed, as it can affect the performance of the tool and its calculation. The process typically takes around three minutes to complete.

Once the plastic waste generated is calculated, the user will receive a notification that the calculations are complete (see Figure 11). The results will then be available in the tables and graphs in different sheets.

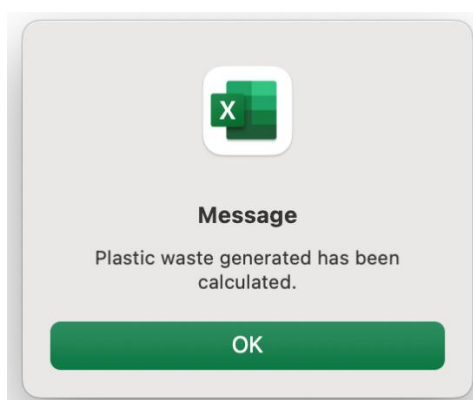


Figure 11 Pop-up shown after plastic waste generated calculation is finished

Step 4: Check and export results

From left to right, the sheets 'Indicators', 'POM_Plastic_Sector', 'WG_Plastic_Sector', 'GraphPOM_Plastic_Sector', 'GraphPOM_type_of_plastic', 'Graph_WG_Plastic_Sector' and 'Graph_WG_type_of_plastic' contain the results of the calculation. These results can be copied directly or the user can export the results from the Plastic Waste Generated Tool by using the **Export results** button on the 'FrontPage' sheet. After clicking the button, an Excel file named "Result_<text from cell B8>.xlsx" will be created (see Figure 12).

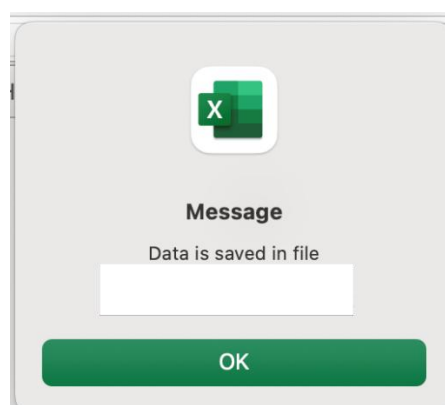


Figure 12 Pop-up shown after exporting the results

Note: By default, the value in cell B8 is 'A', and the file will be named 'Result_A.xlsx'. Users can modify the value in cell B8 to any other valid value.

Step 5: Handle errors (if needed)

The first time the user clicks the **Export results** button, it is possible that Excel will ask for access to the folder where it will store the exported results file. If this permission is not given, the export will fail.

If a file with the name "Result_A.xlsx" already exists in the directory where the Plastic Waste Generated Tool wants to export the results, it will ask the user if it can overwrite the old file (see Figure 13).

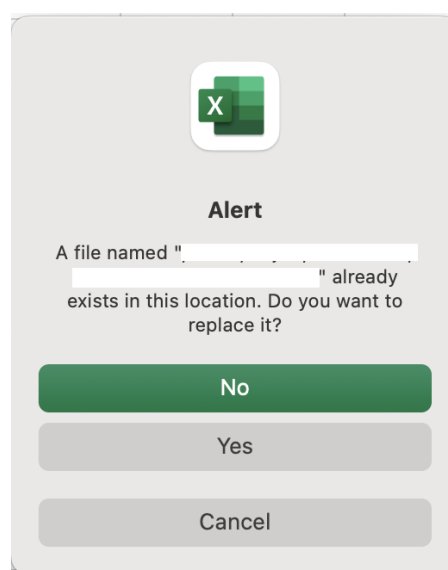


Figure 13 Pop-up shown if a file with the same name already exists

If an invalid value is placed in cell B8 on the 'FrontPage' sheet, the Plastic Waste Generated Tool will show a pop-up and fail to export the results (see Figure 14).

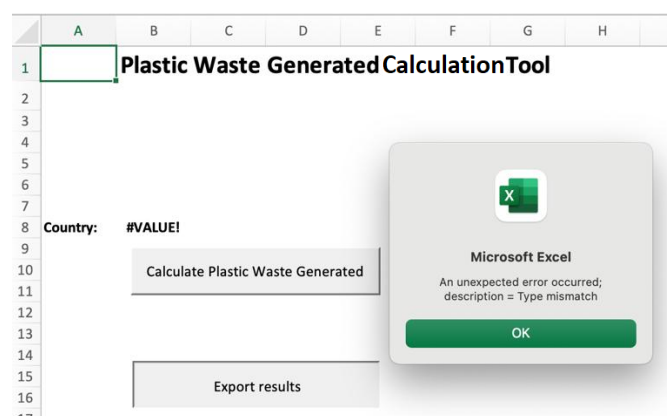


Figure 14 Pop-up shown if the value in cell B8 cannot be used to create a filename

5 Plastic waste generated results

After the calculation of plastic waste generated is completed, two key indicators — Plastic POM and Plastic Waste Generated — are presented in the 'Indicators' sheet of the Plastic Waste Generated Tool. Both graphical and tabular representations of these indicators, disaggregated by Plastic-KEY Group and polymer type, are available within the sheets of the tool.

Evaluating the time series trend is essential for interpreting and validating the results. Significant deviations or unusual shifts in the trend should be further investigated for potential data issues or underlying causes or events (e.g. policy changes, economic fluctuations, or shifts in consumption patterns, etc.). As an additional validation method, users are encouraged to calculate the plastic waste generated per inhabitant per year and compare this figure with similar indicators from countries in the same region or with comparable socioeconomic conditions.

Annex 1: Plastic-KEY classification

Plastic-KEY	Description	Plastic-KEY Group
P101	Boxes, cases, crates, and similar packing articles made of plastic	P1 Packaging
P102	Plastic sacks and bags	
P103	Juices	
P104	Waters	
P105	Soft drinks	
P106	Oil	
P107	Cosmetic, toilet, hair, oral or dental hygiene preparations	
P108	Food preparations	
P201	Locomotives	P2 Transport
P202	Railway or tramway coaches, self-propelled	
P203	Railway or tramway goods vans and wagons, not self-propelled	
P204	Tractors	
P205	Public-transport-type passenger motor vehicles	
P206	Passenger cars	
P207	Trucks	
P208	Special-purpose motor vehicles n.e.c.	
P209	Fork-lift trucks and other work trucks; tractors of the type used on railway station platforms	
P210	Tanks and other armoured fighting vehicles, motorised, and parts thereof	
P211	Motorcycles	
P212	Bicycles	
P213	Wheelchairs	
P214	Trailers and semi-trailers of the caravan type, for housing or camping	
P215	Balloons and dirigibles; gliders, hang gliders and other non-powered aircraft	
P216	Helicopters, aeroplanes, and other powered aircraft	
P217	Spacecraft and spacecraft launch vehicles	
P218	Large ships and vessels	P3 Building and construction
P220	Vessels for pleasure and sport	
P221	Other vessels	
P222	Rafts, tanks, coffer-dams, landing stages, buoys, beacons, and other floating structures	
P223	Other vehicles	
P301	Tubes, pipes and hoses, and fittings therefor, of plastics, used in construction sector	
P302	Floor coverings of plastics, wall or ceiling coverings of plastics	P3 Building and construction
P303	Self-adhesive plates, sheets, film, foil, tape, strip and other flat shapes, of plastics	

P304	Plates, sheets, film, foil and strip, of plastics, not self-adhesive, non-cellular and not reinforced, laminated, supported, or similarly combined with other materials, used in construction sector	
P305	Other plates, sheets, film, foil and strip, of plastics, used in construction sector	
P306	Plastics sanitary ware (baths, wash-basins, etc.)	
P307	Other builders' ware of plastics n.e.c.	
P308	Other construction-related plastics	
P501	Household articles and toilet articles, of plastics	
P502	Office or school supplies	
P503	Umbrellas, sun-umbrellas, walking-sticks, seat-sticks and the like	
P504	Furniture	
P505	Non-electrical lamps and lighting fittings	
P506	Luggage, handbags, travel sets, and similar articles	
P507	Glasses	P5 Consumer and institutional products
P508	Lighters and smoking pipes	
P509	Brooms, brushes, and artificial flowers	
P510	Non-electric toys	
P511	Sporting balls and other sport equipment	
P512	Wigs, false beards, eyebrows and eyelashes, and the like	
P513	Festival, carnival or other entertainment articles	
P701	Wearing apparel	
P702	Make-up textile articles other than apparel	
P703	Apparel and clothing accessories of plastics (incl. gloves)	P7 Apparel and textile furnishing articles
P704	Carpets and other floor coverings	
P705	Artificial fur; articles thereof	
P801	Plastic statuettes and other ornamental articles	
P802	Monopods, bipods, tripods and similar articles	
P803	Medical and pharmaceutical goods	
P804	Hand tools	
P805	Tailors' dummies and other lay figures, automata and other animated displays used for shop window dressing	P8 Other
P806	Photographic plates and film and instant print film	
P807	Illuminated signs	
P808	Fishing nets	
P809	Other articles	

Annex 2: Methodology for calculating plastic POM

This annex explains the calculation steps performed in the Plastic POM Tool.

The methodology to calculate the total amount of plastic POM in a given year for a specific country is based on:

- the amount of plastic imported (using HS codes)
- the amount of plastic exported (using HS codes)
- the amount of plastic domestically produced (using CPC codes).

Plastic POM is calculated using the ‘apparent consumption methodology’, as shown in Equation 1.

$$\text{Eq. 1} \quad \text{Apparent consumption} = \text{Domestic production} + \text{Imports} - \text{Export}$$

The Plastic POM Tool takes the input HS imports and exports, as well as the CPC production, and combines this data with the parameter ‘plastic fraction’, to calculate the plastic embedded in the products POM, as shown in Equation 2

$$\text{Eq. 2} \quad \text{Plastic Embedded POM} = f_{CPC} * \text{Domestic Production} + f_{HS} * \text{Import} - f_{HS} * \text{Export}$$

where f_{HS} represents the plastic fraction in each HS code, and f_{CPC} represents the plastic fraction in each CPC code.

Annex 3: Methodology for calculating plastic waste generated

This annex explains the calculation steps performed in the Plastic Waste Generated Tool.

Product lifetime methodology is applied in the background of the Plastic Waste Generated Tool. The methodology is a variation of dynamic material flow analysis, where time is used as a crucial dimension to assess the changes in material flows and stocks over different periods. In product lifetime methodology, plastic waste generated can be estimated with plastic POM and product lifetimes, as shown in Equation 3 and Equation 4 below.

$$Eq. 3 \quad Plastic\ Waste\ Generated\ (n) = \sum_{t=t_0}^n Apparent\ consumption(t) * L^p(n - t)$$

$$Eq. 4 \quad L^p(n - t) = \frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{(n-t-\mu)^2}{2\sigma^2}}$$

Plastic waste generated in year n is calculated by applying a probability function that links the year of consumption (or placement on the market) to the likely year of disposal. $L^p(n - t)$ represents the lifespan distribution of product P sold in year t , indicating the probability of becoming waste in the inventory year n . Following established methodologies in scientific literature, a **Gaussian (normal) distribution** is applied as the model for product lifespans.

The average lifespans of products by the Plastic-KEY Group are listed in Table 3.

Table 3. Product lifetimes by Plastic-KEY Group

Plastic-KEY Group	μ (mean, in years)	σ (standard deviation in years)
P1 Packaging	0.5	0.1
P2 Transport	13	3
P3 Building and construction	35	7
P5 Consumer and institutional products	3	1
P7 Apparel and textile furnishing articles	5	1.5
P8 Other	5	1.5

Annex 4: Brief guidance on data collection

The toolkit includes built-in parameters such as plastic fraction, polymer composition, and average weight. These values are based on existing scientific literature and relevant reports. However, it should be noted that such parameters may vary geographically and change over time with technological advancements. Countries are therefore strongly encouraged to collect data on these parameters from their national sources, where possible.

- Plastic fraction refers to the proportion of a product's total weight that consists of plastic. It plays a crucial role when estimating the amount of plastic embedded in those products. Reliable data on plastic fractions can often be obtained from product manufacturers or relevant industry associations.
- The average weight refers to the typical or representative weight of a single unit of a product. This parameter is used in combination with the plastic fraction to estimate the amount of plastic embedded in products. The plastic content embedded in products can be estimated by multiplying the average weight per unit by the total number of units and the plastic fraction.
- Polymer composition provides information on the types of polymers. Different polymer types require different ways of waste treatment.

To lower the uncertainty, the parameters can be gathered at the national level for each HS code (trade-related goods), or each CPC code (domestic production products), or each Plastic-KEY. When resources are limited, representative or key products from each Plastic-KEY Group can be selected. Parameters for these selected products can then be estimated using statistical surveys, administrative records, and other relevant national data sources.

Annex 5: Correspondence table between HS codes and the Plastic-KEYs

HS Code	HS Description	Plastic-KEY
110412	Cereal grains; rolled or flaked, of oats	P108
110419	Cereal grains; rolled or flaked, other than oats	P108
110422	Cereal grains; worked (e.g. hulled, pearled, sliced or kibbled) of oats	P108
110423	Cereal grains; worked (e.g. hulled, pearled, sliced or kibbled) of maize (corn)	P108
110429	Cereal grains; worked, other than rolled or flaked (e.g. Hulled, pearled, sliced or kibbled) of cereals, excluding oats and maize, and rice of heading no.1006	P108
110430	Cereal; germ of cereals, whole, rolled, flaked or ground	P108
150790	Soya-bean oil and its fractions, whether or not refined (excl. chemically modified and crude)	P106
151219	Sunflower-seed or safflower oil and their fractions, whether or not refined, but not chemically modified (excl. crude)	P106
190211	Food preparations; pasta, containing eggs, uncooked, not stuffed or otherwise prepared	P108
190219	Food preparations; pasta, uncooked (excluding that containing eggs), not stuffed or otherwise prepared	P108
190220	Food preparations; pasta, stuffed (with meat or other substances), whether or not cooked or otherwise prepared	P108
190230	Food preparations; pasta (excluding stuffed), cooked or otherwise prepared	P108
190240	Food preparations; couscous	P108
190410	Food preparations; obtained by the swelling or roasting of cereals or cereal products	P108
190420	Food preparations; obtained from unroasted cereal flakes or from mixtures of unroasted cereal flakes and roasted cereal flakes or swelled cereals	P108
190430	Prepared foods obtained by the swelling or roasting of cereals or cereal products (e.g. corn flakes); cereals, not maize (corn), in grain form or in the form of flakes or other worked grains, from bulgur wheat	P108
190490	Food preparations; cereal or cereal products (excluding maize), in grain form, pre-cooked or otherwise prepared	P108
200811	Nuts; ground-nuts, whether or not containing added sugar, other sweetening matter or spirit	P108
200819	Nuts and other seeds; whether or not containing added sugar, other sweetening matter or spirit (excluding ground-nuts except in mixtures)	P108
200911	Frozen orange juice, unfermented, whether or not containing added sugar or other sweetening matter (excl. containing spirit)	P103
200912	Orange juice, unfermented, Brix value <= 20 at 20°C, whether or not containing added sugar or other sweetening matter (excl. containing spirit and frozen)	P103
200919	Orange juice, unfermented, whether or not containing added sugar or other sweetening matter (excl. containing spirit, frozen, and of a Brix value <= 20 at 20°C)	P103
200921	Grapefruit juice, unfermented, Brix value <= 20 at 20°C, whether or not containing added sugar or other sweetening matter (excl. containing spirit)	P103
200929	Grapefruit juice, unfermented, Brix value > 20 at 20°C, whether or not containing added sugar or other sweetening matter (excl. containing spirit)	P103
200931	Single citrus fruit juice, unfermented, Brix value <= 20 at 20°C, whether or not containing added sugar or other sweetening matter (excl. containing spirit, mixtures, orange juice and grapefruit juice)	P103
200939	Single citrus fruit juice, unfermented, Brix value > 20 at 20°C, whether or not containing added sugar or other sweetening matter (excl. containing spirit, mixtures, orange juice and grapefruit juice)	P103
200941	Pineapple juice, unfermented, Brix value <= 20 at 20°C, whether or not containing added sugar or other sweetening matter (excl. containing spirit)	P103
200949	Pineapple juice, unfermented, Brix value > 20 at 20°C, whether or not containing added sugar or other sweetening matter (excl. containing spirit)	P103
200950	Tomato juice, unfermented, whether or not containing added sugar or other sweetening matter (excl. containing spirit)	P103
200961	Grape juice, incl. grape must, unfermented, Brix value <= 30 at 20°C, whether or not containing added sugar or other sweetening matter (excl. containing spirit)	P103

200969	Grape juice, incl. grape must, unfermented, Brix value > 30 at 20°C, whether or not containing added sugar or other sweetening matter (excl. containing spirit)	P103
200971	Apple juice, unfermented, Brix value ≤ 20 at 20°C, whether or not containing added sugar or other sweetening matter (excl. containing spirit)	P103
200979	Apple juice, unfermented, Brix value > 20 at 20°C, whether or not containing added sugar or other sweetening matter (excl. containing spirit)	P103
200981	Cranberry (<i>Vaccinium macrocarpon</i> , <i>Vaccinium oxycoccos</i>) juice; lingonberry (<i>Vaccinium vitis-idaea</i>) juice, unfermented, whether or not containing added sugar or other sweetening matter (excl. containing spirit)	P103
200989	Juice of fruit or vegetables, unfermented, whether or not containing added sugar or other sweetening matter (excl. containing spirit, mixtures, and juice of citrus fruit, pineapples, tomatoes, grapes, incl. grape must, apples and cranberries)	P103
200990	Mixtures of fruit juices, incl. grape must, and vegetable juices, unfermented, whether or not containing added sugar or other sweetening matter (excl. containing spirit)	P103
220110	Mineral waters and aerated waters, not containing added sugar, other sweetening matter or flavoured	P104
220190	Ordinary natural water, not containing added sugar, other sweetening matter or flavoured; ice and snow (excl. mineral waters and aerated waters, sea water, distilled water, conductivity water or water of similar purity)	P104
220210	Waters, incl. mineral and aerated, with added sugar, sweetener or flavour, for direct consumption as a beverage	P104
220299	Non-alcoholic beverages (excl. water, fruit or vegetable juices, milk and beer)	P105
300650	Pharmaceutical goods; first aid boxes and kits	P803
330410	Cosmetic and toilet preparations; lip make-up	P107
330420	Cosmetic and toilet preparations; eye make-up	P107
330430	Cosmetic and toilet preparations; manicure or pedicure preparations	P107
330491	Cosmetic and toilet preparations; powders, whether or not compressed (excluding lip, eye, manicure or pedicure preparations)	P107
330499	Cosmetic and toilet preparations; n.e.c. in heading no. 3304, for the care of the skin (excluding medicaments, including sunscreen or sun tan preparations)	P107
330510	Hair preparations; shampoos	P107
330520	Hair preparations; for permanent waving or straightening	P107
330530	Hair preparations; lacquers	P107
330590	Hair preparations; n.e.c. in heading no. 3305	P107
330610	Oral or dental hygiene preparations; dentifrices	P107
330620	Oral or dental hygiene preparations; yarn used to clean between the teeth (dental floss)	P107
330690	Oral or dental hygiene preparations; other than dentifrices	P107
370110	Photographic plates and film in the flat, sensitised, unexposed, for X-ray (excl. of paper, paperboard and textiles)	P806
370120	Instant print film in the flat, sensitised, unexposed, whether or not in packs	P806
370130	Photographic plates and film in the flat, sensitised, unexposed, with any side > 255 mm	P806
370191	Photographic plates and film in the flat, sensitised, unexposed, of any material other than paper, paperboard or textiles, for colour photography polychrome (excl. instant print film)	P806
370199	Photographic plates and film in the flat for monochrome photography, sensitised, unexposed, of any material other than paper, paperboard or textiles (excl. X-ray film and photographic plates, film in the flat with any side > 255 mm, and instant print film)	P806
370210	Photographic film in rolls, unexposed, for X-ray (excl. of paper, paperboard or textiles)	P806
370231	Photographic film incl. instant print film in rolls, sensitised, unexposed, without perforations, width ≤ 105 mm, for colour photography (polychrome) (excl. that of paper, paperboard or textiles)	P806
370232	Photographic film incl. instant print film in rolls, sensitised, unexposed, without perforations, width ≤ 105 mm, with silver halide emulsion for monochrome photography (excl. that of paper, paperboard or textiles and X-ray film)	P806
370239	Photographic film incl. instant print film in rolls, sensitised, unexposed, without perforations, width ≤ 105 mm, for monochrome photography (excl. film with silver halide emulsion, film made of paper, paperboard or textiles and X-ray film)	P806

370241	Photographic film incl. instant print film in rolls, sensitised, unexposed, without perforations, width > 610 mm, length > 200 m, for colour photography (polychrome) (excl. that of paper, paperboard or textiles)	P806
370242	Photographic film incl. instant print film in rolls, sensitised, unexposed, without perforations, width > 610 mm, length > 200 m, for monochrome photography (excl. that of paper, paperboard or textiles)	P806
370243	Photographic film incl. instant print film in rolls, sensitised, unexposed, without perforations, width > 610 mm, length ≤ 200 m (excl. that of paper, paperboard or textiles)	P806
370244	Photographic film incl. instant print film in rolls, sensitised, unexposed, without perforations, width > 105 mm to 610 mm (excl. that of paper, paperboard or textiles)	P806
370252	Photographic film, sensitised, in rolls, unexposed, with perforations, for colour photography (polychrome), width ≤ 16 mm (excl. of paper, paperboard or textiles)	P806
370253	Photographic film, sensitised, in rolls, unexposed, with perforations, for colour photography (polychrome), width > 16 mm to 35 mm, length ≤ 30 m, for slides	P806
370254	Photographic film, sensitised, in rolls, unexposed, with perforations, for colour photograph (polychrome), width > 16 mm but ≤ 35 mm, length ≤ 30 m (excl. of paper, paperboard and textiles; for slides)	P806
370255	Photographic film, sensitised, in rolls, unexposed, with perforations, for colour photography (polychrome), width > 16 mm but ≤ 35 mm, length > 30 m (excl. of paper, paperboard and textiles; for slides)	P806
370256	Photographic film, sensitised, in rolls, unexposed, with perforations, for colour photography (polychrome), width > 35 mm (excl. that of paper, paperboard or textiles)	P806
370296	Photographic film, sensitised, in rolls, unexposed, with perforations, for monochrome photography, width ≤ 35 mm, length ≤ 30 m (excl. of paper, paperboard and textiles; X-ray film)	P806
370297	Photographic film, sensitised, in rolls, unexposed, with perforations, for monochrome photography, width ≤ 35 mm, length > 30 m (excl. of paper, paperboard and textiles; X-ray film)	P806
370298	Photographic film, sensitised, in rolls, unexposed, with perforations, for monochrome photography, width > 35 mm (excl. of paper, paperboard and textiles; X-ray film)	P806
391721	Rigid tubes, pipes and hoses, of polymers of ethylene	P301
391722	Rigid tubes, pipes and hoses of polymers of propylene	P301
391723	Rigid tubes, pipes and hoses, of polymers of vinyl chloride	P301
391729	Rigid tubes, pipes and hoses, of plastics (excl. those of polymers of ethylene, propylene and vinyl chloride)	P301
391731	Flexible tubes, pipes and hoses, of plastics, burst pressure ≥ 27,6 MPa	P301
391732	Flexible tubes, pipes and hoses of plastics, not reinforced or otherwise combined with other materials, without fittings	P301
391733	Flexible tubes, pipes and hoses of plastics, not reinforced or otherwise combined with other materials, with fittings, seals or connectors	P301
391739	Flexible tubes, pipes and hoses, of plastics, reinforced or otherwise combined with other materials (excl. those with a burst pressure of ≥ 27,6 MPa)	P301
391740	Fittings, e.g. joints, elbows, flanges, of plastics, for tubes, pipes and hoses	P301
391810	Floor coverings, whether or not self-adhesive, in rolls or in the form of tiles, and wall or ceiling coverings in rolls with a width of ≥ 45 cm, consisting of a layer of plastics fixed permanently on a backing of any material other than paper, the face side of which is grained, embossed, coloured, design-printed or otherwise decorated, of polymers of vinyl chloride	P302
391890	Floor coverings of plastics, whether or not self-adhesive, in rolls or in the form of tiles, and wall or ceiling coverings in rolls with a width of ≥ 45 cm, consisting of a layer of plastics fixed permanently on a backing of any material other than paper, the face side of which is grained, embossed, coloured, design-printed or otherwise decorated (excl. coverings of polymers of vinyl chloride)	P302
391910	Self-adhesive plates, sheets, film, foil, tape, strip and other flat shapes, of plastics, in rolls ≤ 20 cm wide	P303
391990	Self-adhesive plates, sheets, film, foil, tape, strip and other flat shapes, of plastics, whether or not in rolls > 20 cm wide (excl. floor, wall and ceiling coverings of heading 3918)	P303
392010	Plates, sheets, film, foil and strip, of non-cellular polymers of ethylene, not reinforced, laminated, supported or similarly combined with other materials, without backing,	P304

	unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, and floor, wall and ceiling coverings of heading 3918)	
392020	Plates, sheets, film, foil and strip, of non-cellular polymers of ethylene, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, and floor, wall and ceiling coverings of heading 3918)	P304
392030	Plates, sheets, foil, film and strip, of non-cellular polymers of styrene, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, and floor, wall and ceiling coverings of heading 3918)	P304
392043	Plates, sheets, film, foil and strip, of non-cellular polymers of vinyl chloride, containing by weight $\geq$ 6% of plasticisers, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, and floor, wall and ceiling coverings of heading 3918)	P304
392049	Plates, sheets, film, foil and strip, of non-cellular polymers of vinyl chloride, containing by weight $<$ 6% of plasticisers, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, and floor, wall and ceiling coverings of heading 3918)	P304
392051	Plates, sheets, film, foil and strip, of non-cellular poly (methyl methacrylate), not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, and floor, wall and ceiling coverings of heading 3918)	P304
392059	Plates, sheets, film, foil and strip, of non-cellular acrylic polymers, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. those of poly (methyl methacrylate), self-adhesive products, and floor, wall and ceiling coverings of heading 3918)	P304
392061	Plates, sheets, film, foil and strip, of non-cellular polycarbonates, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. those of poly (methyl methacrylate), self-adhesive products, and floor, wall and ceiling coverings of heading 3918)	P304
392062	Plates, sheets, film, foil and strip, of non-cellular poly (ethylene terephthalate), not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. those of poly (methyl methacrylate), self-adhesive products, and floor, wall and ceiling coverings of heading 3918)	P304
392063	Plates, sheets, film, foil and strip, of non-cellular unsaturated polyesters, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. those of poly (methyl methacrylate), self-adhesive products, and floor, wall and ceiling coverings of heading 3918)	P304
392069	Plates, sheets, film, foil and strip, of non-cellular polyesters, not reinforced, laminated, supported or similarly combined with other materials, not worked or only surface-worked, or only cut to rectangular, incl. square, shapes (excl. polycarbonates, poly (ethylene terephthalate) and other unsaturated polyesters, self-adhesive products, and floor, wall and ceiling coverings in heading 3918)	P304
392071	Plates, sheets, film, foil and strip, of non-cellular regenerated cellulose, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, and floor, wall and ceiling coverings of heading 3918)	P304
392073	Plates, sheets, film, foil and strip, of non-cellular cellulose acetates, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, and floor, wall and ceiling coverings of heading 3918)	P304
392079	Plates, sheets, film, foil and strip, of non-cellular cellulose derivatives, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. products of cellulose acetates, self-adhesive products, floor, wall and ceiling coverings of heading 3918)	P304

392091	Plates, sheets, film, foil and strip, of non-cellular poly (vinyl butyral), not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, floor, wall and ceiling coverings of heading 3918)	P304
392092	Plates, sheets, film, foil and strip, of non-cellular polyamides, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, floor, wall and ceiling coverings of heading 3918)	P304
392093	Plates, sheets, film, foil and strip, of non-cellular amino-resins, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, floor, wall and ceiling coverings of heading 3918)	P304
392094	Plates, sheets, film, foil and strip, of non-cellular phenolic resins, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, floor, wall and ceiling coverings of heading 3918)	P304
392099	Plates, sheets, film, foil and strip, of non-cellular plastics, n.e.s., not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, floor, wall and ceiling coverings of heading 3918 and sterile surgical or dental adhesion barriers of subheading 3006.10.30)	P304
392111	Plates, sheets, film, foil and strip, of cellular polymers of styrene, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, floor, wall and ceiling coverings of heading 3918 and sterile surgical or dental adhesion barriers of subheading 3006.10.30)	P305
392112	Plates, sheets, film, foil and strip, of cellular polymers of vinyl chloride, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, floor, wall and ceiling coverings of heading 3918 and sterile surgical or dental adhesion barriers of subheading 3006.10.30)	P305
392113	Plates, sheets, film, foil and strip, of cellular polyurethanes, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, floor, wall and ceiling coverings of heading 3918 and sterile surgical or dental adhesion barriers of subheading 3006.10.30)	P305
392114	Plates, sheets, film, foil and strip, of regenerated cellular cellulose, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, floor, wall and ceiling coverings of heading 3918 and sterile surgical or dental adhesion barriers of subheading 3006.10.30)	P305
392119	Plates, sheets, film, foil and strip, of cellular plastics, unworked or merely surface-worked or merely cut into squares or rectangles (excl. those of polymers of styrene, vinyl chloride, polyurethanes and regenerated cellulose, self-adhesive products, floor, wall and ceiling coverings of heading 3918 and sterile surgical or dental adhesion barriers of subheading 3006.10.30)	P305
392190	Plates, sheets, film, foil and strip, of plastics, reinforced, laminated, supported or similarly combined with other materials, unworked or merely surface-worked or merely cut into squares or rectangles (excl. of cellular plastics; self-adhesive products, floor, wall and ceiling coverings of heading 3918)	P305
392210	Baths, shower-baths, sinks and washbasins, of plastics	P306
392220	Lavatory seats and covers, of plastics	P306
392290	Bidets, lavatory pans, flushing cisterns and similar sanitary ware, of plastics (excl. baths, shower-baths, sinks, washbasins, lavatory seats and covers)	P306
392310	Boxes, cases, crates and similar articles for the conveyance or packaging of goods, of plastics	P101
392321	Sacks and bags, incl. cones, of polymers of ethylene	P102
392329	Sacks and bags, incl. cones, of plastics (excl. those of polymers of ethylene)	P102
392340	Spools, cops, bobbins and similar supports, of plastics	P101
392350	Stoppers, lids, caps and other closures, of plastics	P101
392390	Articles for the conveyance or packaging of goods, of plastics (excl. boxes, cases, crates and similar articles; sacks and bags, incl. cones; carboys, bottles, flasks and similar articles; spools, spindles, bobbins and similar supports; stoppers, lids, caps and other closures)	P101
392410	Tableware and kitchenware, of plastics	P501

392490	Household articles and toilet articles, of plastics (excl. tableware, kitchenware, baths, shower-baths, washbasins, bidets, lavatory pans, seats and covers, flushing cisterns and similar sanitary ware)	P501
392510	Reservoirs, tanks, vats and similar containers, of plastics, with a capacity of > 300 l	P307
392520	Doors, windows and their frames and thresholds for doors, of plastics	P307
392530	Shutters, blinds, incl. Venetian blinds, and similar articles and parts thereof, of plastics (excl. fittings and similar articles)	P307
392590	Building elements for the manufacture of floors, walls, partition walls, ceilings, roofs, etc., of plastics; gutters and accessories of plastics; railings, fences and similar barriers, of plastics; large shelves, for assembly and permanent installation in shops, workshops, etc., of plastics; architectural ornaments, e.g. friezes, of plastics; fittings and similar products for permanent mounting on buildings, of plastics	P307
392610	Office or school supplies, of plastics, n.e.s.	P502
392620	Articles of apparel and clothing accessories produced by the stitching or sticking together of plastic sheeting, incl. gloves, mittens and mitts (excl. goods of 9619)	P703
392630	Fittings for furniture, coachwork and the like, of plastics (excl. building components for permanent mounting on parts of buildings)	P504
392640	Statuettes and other ornamental articles, of plastics	P801
392690	Articles of plastics and articles of other materials of heading 3901 to 3914, n.e.s (excl. goods of 9619)	P809
420212	Trunks, suitcases, vanity cases, executive-cases, briefcases, school satchels and similar containers, with outer surface of plastics or textile materials	P506
420222	Handbags, whether or not with shoulder straps, incl. those without handles, with outer surface of plastic sheeting or textile materials	P506
420229	Handbags, whether or not with shoulder strap, incl. those without handle, with outer surface of vulcanised fibre or paperboard, or wholly or mainly covered with such materials or with paper	P506
420232	Wallets, purses, key-pouches, cigarette-cases, tobacco-pouches and similar articles carried in the pocket or handbag, with outer surface of plastic sheeting or textile materials	P506
420239	Wallets, purses, key-cases, cigarette-cases, tobacco-pouches and similar articles of a kind normally carried in the pocket or handbag, with outer surface of vulcanised fibre or paperboard, or wholly or mainly covered with such materials or with paper, incl. spectacle cases of moulded plastic material	P506
420292	Travelling-bags, insulated food or beverage bags, toilet bags, rucksacks, shopping-bags, map-cases, tool bags, sports bags, jewellery boxes, cutlery cases, binocular cases, camera cases, musical instrument cases, gun cases, holsters and similar containers, with outer surface of plastic sheeting or textile materials (excl. trunks, briefcases, school satchels and similar containers, handbags and articles carried in the pocket or handbag)	P506
420299	Travelling-bags, shopping or tool bags, jewellery boxes, cutlery cases and similar, with outer surface of vulcanised fibre or paperboard; cases for binoculars, cameras, musical instruments, guns, holsters and similar containers with outer surface of materials (not leather, plastic sheeting or textile materials) (excl. trunks, briefcases, school satchels and similar; handbags; articles normally carried in pocket or handbag)	P506
430400	Artificial fur and articles thereof (excl. gloves made of leather and artificial fur, footwear and headgear and parts thereof, and goods of chapter 95, e.g. toys, games and sports equipment)	P705
560811	Twine, cordage or rope; fishing nets, made up, of man made textile materials	P808
570232	Carpets and other floor coverings, of man-made textile materials, woven, not tufted or flocked, of pile construction, not made up (excl. "Kelem", "Schumacks", "Karamanie" and similar hand-woven rugs)	P704
570242	Carpets and other floor coverings, of man-made textile materials, woven, not tufted or flocked, of pile construction, made up (excl. "Kelem", "Schumacks", "Karamanie" and similar hand-woven rugs)	P704
570250	Carpets and other textile floor coverings, woven, not tufted or flocked, not of pile construction, not made up (excl. "Kelem", "Schumacks", "Karamanie" and similar hand-woven rugs, and floor coverings of coconut fibres coir)"	P704
570292	Carpets and other floor coverings, of man-made textile materials, woven, not tufted or flocked, not of pile construction, made up (excl. "Kelem", "Schumacks", "Karamanie" and similar hand-woven rugs)	P704

570320	Carpets and other floor coverings, of nylon or other polyamides, tufted needle punched, whether or not made up	P704
570330	Carpets and other floor coverings, of man-made textile materials, tufted needle punched, whether or not made up (excl. those of nylon or other polyamides)	P704
570410	Floor tiles, of felt, not tufted or flocked, with an area of $\leq 0,3 \text{ m}^2$	P704
570420	Floor tiles, of felt, not tufted or flocked, with an area of $> 0,3 \text{ m}^2$ but $\leq 1 \text{ m}^2$	P704
570490	Carpets and other floor coverings, of felt, not tufted or flocked, whether or not made up (excl. floor tiles with an area of $\leq 1 \text{ m}^2$)	P704
570500	Carpets and other textile floor coverings, whether or not made up (excl. knotted, woven or tufted needle punched, and of felt)	P704
610130	Coats; men's or boys' overcoats, car-coats, capes, anoraks, wind-jackets and similar articles, of man-made fibres, knitted or crocheted (excluding those of heading no. 6103)	P701
610230	Coats; women's or girls' overcoats, car-coats, capes, anoraks, wind-jackets and similar articles, of man-made fibres, knitted or crocheted (excluding those of heading no. 6104)	P701
610310	Suits; men's or boys', knitted or crocheted	P701
610323	Ensembles; men's or boys', of synthetic fibres, knitted or crocheted	P701
610333	Jackets and blazers; men's or boys', of synthetic fibres, knitted or crocheted	P701
610343	Trousers, bib and brace overalls, breeches and shorts; men's or boys', of synthetic fibres, knitted or crocheted	P701
610413	Suits; women's or girls', of synthetic fibres, knitted or crocheted	P701
610423	Ensembles; women's or girls', of synthetic fibres, knitted or crocheted	P701
610433	Jackets; women's or girls', of synthetic fibres, knitted or crocheted	P701
610443	Dresses; women's or girls', of synthetic fibres, knitted or crocheted	P701
610453	Skirts and divided skirts; women's or girls', of synthetic fibres, knitted or crocheted	P701
610463	Trousers, bib and brace overalls, breeches and shorts; women's or girls', of synthetic fibres, knitted or crocheted	P701
610520	Shirts; men's or boys', of man-made fibres, knitted or crocheted	P701
610620	Blouses, shirts and shirt-blouses; women's or girls', of man-made fibres, knitted or crocheted	P701
610712	Underpants and briefs; men's or boys', of man-made fibres, knitted or crocheted	P701
610722	Nightshirts and pyjamas; men's or boys', of man-made fibres, knitted or crocheted	P701
610811	Slips and petticoats; women's or girls', of man-made fibres, knitted or crocheted	P701
610822	Briefs and panties; women's or girls', of man-made fibres, knitted or crocheted	P701
610832	Nightdresses and pyjamas; women's or girls', of man-made fibres, knitted or crocheted	P701
610892	N negligees, bathrobes, dressing gowns and similar articles; women's or girls', of man-made fibres, knitted or crocheted	P701
611030	Jerseys, pullovers, cardigans, waistcoats and similar articles; of man-made fibres, knitted or crocheted	P701
611130	Garments and clothing accessories; babies', of synthetic fibres, knitted or crocheted	P701
611212	Track suits; of synthetic fibres, knitted or crocheted	P701
611231	Swimwear; men's or boys', of synthetic fibres, knitted or crocheted	P701
611241	Swimwear; women's or girls', of synthetic fibres, knitted or crocheted	P701
611430	Garments; of man-made fibres, knitted or crocheted, n.e.c. in chapter 61	P701
611510	Graduated compression hosiery (for example, stockings for varicose veins), knitted or crocheted	P701
611521	Hosiery; panty hose and tights (other than graduated compression hosiery), of synthetic fibres, measuring per single yarn less than 67 decitex, knitted or crocheted	P701
611522	Hosiery; panty hose and tights (other than graduated compression hosiery), of synthetic fibres, measuring per single yarn 67 decitex or more, knitted or crocheted	P701
611530	Hosiery; women's, full-length or knee-length (other than graduated compression hosiery), measuring per single yarn less than 67 decitex, knitted or crocheted	P701
611596	Hosiery and footwear; without applied soles, of synthetic fibres, knitted or crocheted (excluding graduated compression hosiery, panty hose, tights, full or knee-length hosiery measuring per single yarn less than 67 decitex)	P701

611610	Gloves, mittens and mitts; knitted or crocheted, impregnated, coated or covered with plastics or rubber	P701
611693	Gloves, mittens and mitts; of synthetic fibres, knitted or crocheted, (other than impregnated, coated or covered with plastics or rubber)	P701
611710	Shawls, scarves, mufflers, mantillas, veils and the like; knitted or crocheted	P701
611780	Clothing accessories; knitted or crocheted, n.e.c. in heading no. 6117	P701
611790	Clothing; parts, knitted or crocheted	P701
620113	Coats; men's or boys', overcoats, raincoats, car-coats, capes, cloaks and similar articles, of man-made fibres, other than those of heading no. 6203 (not knitted or crocheted)	P701
620193	Anoraks (including ski-jackets), wind-cheaters, wind-jackets and similar articles; men's or boys', of man-made fibres, other than those of heading no. 6203 (not knitted or crocheted)	P701
620213	Coats; women's or girls', overcoats, raincoats, car-coats, capes, cloaks and similar articles, of man-made fibres, other than those of heading no. 6204 (not knitted or crocheted)	P701
620293	Anoraks (including ski-jackets), wind-cheaters, wind-jackets and similar articles; women's or girls', of man-made fibres, other than those of heading no. 6204 (not knitted or crocheted)	P701
620312	Suits; men's or boys', of synthetic fibres (not knitted or crocheted)	P701
620323	Ensembles; men's or boys', of synthetic fibres (not knitted or crocheted)	P701
620333	Jackets and blazers; men's or boys', of synthetic fibres (not knitted or crocheted)	P701
620343	Trousers, bib and brace overalls, breeches and shorts; men's or boys', of synthetic fibres (not knitted or crocheted)	P701
620413	Suits; women's or girls', of synthetic fibres (not knitted or crocheted)	P701
620423	Ensembles; women's or girls', of synthetic fibres (not knitted or crocheted)	P701
620433	Jackets and blazers; women's or girls', of synthetic fibres (not knitted or crocheted)	P701
620443	Dresses; women's or girls', of synthetic fibres (not knitted or crocheted)	P701
620453	Skirts and divided skirts; women's or girls', of synthetic fibres (not knitted or crocheted)	P701
620463	Trousers, bib and brace overalls, breeches and shorts; women's or girls', of synthetic fibres (not knitted or crocheted)	P701
620530	Shirts; men's or boys', of man-made fibres (not knitted or crocheted)	P701
620640	Blouses, shirts and shirt-blouses; women's or girls', of man-made fibres (not knitted or crocheted)	P701
620722	Nightshirts and pyjamas; men's or boys', of man-made fibres (not knitted or crocheted)	P701
620811	Slips and petticoats; women's or girls', of man-made fibres (not knitted or crocheted)	P701
620822	Nightdresses and pyjamas; women's or girls', of man-made fibres (not knitted or crocheted)	P701
620892	Singlets and other vests, briefs, panties, negligees, bathrobes, dressing gowns etc.; women's or girls', of man-made fibres (not knitted or crocheted), excluding incontinence or other sanitary garments or garment liners of heading no. 96.19	P701
620930	Garments and clothing accessories; babies', of synthetic fibres (not knitted or crocheted)	P701
621010	Garments; of felt or non-wovens (not knitted or crocheted)	P701
621020	Garments; overcoats, raincoats, car-coats, capes, cloaks and similar articles, men's or boys', of the fabrics of heading no. 5602, 5603, 5903, 5906 or 5907 (not knitted or crocheted)	P701
621030	Garments; overcoats, raincoats, car-coats, capes, cloaks and similar articles, women's or girls', of the fabrics of heading no. 5602, 5603, 5903, 5906 or 5907 (not knitted or crocheted)	P701
621040	Garments; men's or boys', n.e.c. in item no. 6210.2, of the fabrics of heading no. 5602, 5603, 5903, 5906 or 5907 (not knitted or crocheted)	P701
621050	Garments; women's or girls', n.e.c. in item no. 6210.3, of the fabrics of heading no. 5602, 5603, 5903, 5906 or 5907 (not knitted or crocheted)	P701
621111	Swimwear; men's or boys', (not knitted or crocheted)	P701
621112	Swimwear; women's or girls', (not knitted or crocheted)	P701
621120	Ski suits; (not knitted or crocheted)	P701
621133	Track suits and other garments n.e.c.; men's or boys', of man-made fibres (not knitted or crocheted)	P701
621143	Track suits and other garments n.e.c.; women's or girls', of man-made fibres (not knitted or crocheted)	P701
621210	Brassieres; whether or not knitted or crocheted	P701

621220	Girdles and panty-girdles; whether or not knitted or crocheted	P701
621230	Corselettes; whether or not knitted or crocheted	P701
621290	Braces, suspenders, garters and similar articles; whether or not knitted or crocheted, n.e.c. in heading no. 6212	P701
621430	Shawls, scarves, mufflers, mantillas, veils and the like; of synthetic fibres (not knitted or crocheted)	P701
621520	Ties, bow ties and cravats; of man-made fibres (not knitted or crocheted)	P701
621600	Gloves, mittens and mitts (not knitted or crocheted)	P701
621710	Clothing accessories; other than those of heading no. 6212 (not knitted or crocheted)	P701
621790	Clothing; parts of garments or of clothing accessories, other than those of heading no. 6212 (not knitted or crocheted)	P701
650100	Hat-forms, hat bodies and hoods of felt, neither blocked to shape nor with made brims; plateaux and manchons (including slit manchons) of felt	P701
650200	Hat-shapes; plaited or made by assembling strips of any material, neither blocked to shape, nor with made brims, nor lined, nor trimmed	P701
650400	Hats and other headgear; plaited or made by assembling strips of any material, whether or not lined or trimmed	P701
650500	Hats and other headgear; knitted or crocheted, or made up from lace, felt or other textile fabric, in the piece (but not in strips), whether or not lined or trimmed; hair-nets of any material, whether or not lined or trimmed	P701
650610	Safety headgear	P307
650691	other safety headgear, of rubber or of plastics	P307
650700	Head-bands, linings, covers, hat foundations, hat frames, peaks and chinstraps; for headgear	P701
660110	Garden or similar umbrellas (excl. beach tents)	P503
660191	Umbrellas having a telescopic shaft (excl. toy umbrellas)	P503
660199	Umbrellas and sun umbrellas, incl. walking-stick umbrellas (excl. umbrellas having a telescopic shaft, garden umbrellas and the like, and toy umbrellas)	P503
670210	Artificial flowers, foliage and fruit and parts thereof, and articles made of artificial flowers, foliage or fruit, by binding, glueing, fitting into one another or similar methods, of plastics	P509
670411	Complete wigs of synthetic textile materials	P512
670419	False beards, eyebrows and eyelashes, switches and the like, of synthetic textile materials (excl. complete wigs)	P512
820110	Tools, hand; spades and shovels	P804
820150	Tools, hand; one-handed secateurs (including poultry shears)	P804
820160	Tools, hand; hedge shears, two-handed pruning shears and similar two-handed shears	P804
820210	Tools, hand; hand saws	P804
820310	Tools, hand; files, rasps and similar tools	P804
820320	Tools, hand; pliers (including cutting pliers), pincers, tweezers and similar tools	P804
820330	Tools, hand; metal cutting shears and similar tools	P804
820340	Tools, hand; pipe-cutters, bolt croppers, perforating punches and similar tools	P804
820411	Tools, hand; hand-operated spanners and wrenches (including torque meter wrenches but not including tap wrenches), non-adjustable	P804
820412	Tools, hand; hand-operated spanners and wrenches (including torque meter wrenches but not including tap wrenches), adjustable	P804
820420	Tools, hand; interchangeable spanner sockets, with or without handles	P804
820510	Tools, hand; drilling, threading or tapping tools	P804
820540	Tools, hand; screwdrivers	P804
820551	Tools, hand; household tools	P804
842710	Self-propelled trucks fitted with lifting or handling equipment, powered by an electric motor	P209
842720	Self-propelled trucks fitted with lifting or handling equipment, non-powered by an electric motor	P209
842790	Works trucks fitted with lifting or handling equipment, not self-propelled	P209

854720	Insulating fittings for electrical purposes, of plastics	P308
860110	Rail locomotives powered from an external source of electricity	P201
860120	Rail locomotives powered by electric accumulators	P201
860210	Diesel-electric locomotives	P201
860290	Rail locomotives (excl. those powered from an external source of electricity or by accumulators and diesel-electric locomotives)	P201
860310	Self-propelled railway or tramway coaches, vans and trucks, powered from an external source of electricity (excl. those of heading 8604)	P202
860390	Self-propelled railway or tramway coaches, vans and trucks (excl. those powered from an external source of electricity and those of heading 8604)	P202
860400	Railway or tramway maintenance or service vehicles, whether or not self-propelled, e.g., workshops, cranes, ballast tampers, trackliners, testing coaches and track inspection vehicles	P223
860500	Railway or tramway passenger coaches, luggage vans, post office coaches and other special purpose railway or tramway coaches (excl. self-propelled railway or tramway coaches, vans and trucks, railway or tramway maintenance or service vehicles and goods vans and wagons)	P203
860610	Railway or tramway tank wagons and the like (excl. self-propelled)	P203
860630	Railway or tramway self-discharging goods vans and wagons (excl. tank wagons and the like and insulated or refrigerated goods vans and wagons)	P203
860691	Railway or tramway goods vans and wagons, covered and closed (excl. self-discharging goods vans and wagons and tank wagons and the like)	P203
860692	Railway or tramway goods vans and wagons, open, with non-removable sides of a height > 60 cm (excl. self-discharging wagons)	P203
860699	Railway or tramway goods vans and wagons (excl. those specially designed for the transport of highly radioactive materials, tank wagons and the like, insulated, refrigerated or self-discharging goods vans and wagons and open goods vans and wagons with non-removable sides of a height > 60 cm)	P203
870110	Pedestrian-controlled agricultural tractors and similar tractors for industry (excl. tractor units for articulated lorries)	P204
870120	Road tractors for semi-trailers	P204
870130	Track-laying tractors (excl. pedestrian-controlled)	P204
870191	Tractors, of an engine power ≤ 18 kW (excl. those of heading 8709, pedestrian-controlled tractors, road tractors for semi-trailers and track-laying tractors)	P204
870192	Tractors, of an engine power > 18 kW but ≤ 37 kW (excl. those of heading 8709, pedestrian-controlled tractors, road tractors for semi-trailers and track-laying tractors)	P204
870193	Tractors, of an engine power > 37 kW but ≤ 75 kW (excl. those of heading 8709, pedestrian-controlled tractors, road tractors for semi-trailers and track-laying tractors)	P204
870194	Tractors, of an engine power > 75 kW but ≤ 130 kW (excl. those of heading 8709, pedestrian-controlled tractors, road tractors for semi-trailers and track-laying tractors)	P204
870195	Tractors, of an engine power > 130 kW (excl. those of heading 8709, pedestrian-controlled tractors, road tractors for semi-trailers and track-laying tractors)	P204
870210	Motor vehicles for the transport of ≥ 10 persons, incl. driver, with only diesel engine	P205
870220	Motor vehicles for the transport of ≥ 10 persons, incl. driver, with both diesel engine and electric motor as motors for propulsion	P205
870230	Motor vehicles for the transport of ≥ 10 persons, incl. driver, with both spark-ignition internal combustion reciprocating piston engine and electric motor as motors for propulsion	P205
870240	Motor vehicles for the transport of ≥ 10 persons, incl. driver, with only electric motor for propulsion	P205
870290	Motor vehicles for the transport of ≥ 10 persons, incl. driver (excl. with diesel engine or electric motor for propulsion)	P205
870310	Vehicles for the transport of <10 persons on snow; golf cars and similar vehicles	P205
870321	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with only spark-ignition internal combustion reciprocating piston engine of a cylinder capacity ≤ 1.000 cm ³ (excl. vehicles for travelling on snow and other specially designed vehicles of subheading 8703.10)	P206
870322	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with only spark-ignition internal combustion	P206

	reciprocating piston engine of a cylinder capacity > 1.000 cm ³ but ≤ 1.500 cm ³ (excl. vehicles for travelling on snow and other specially designed vehicles of subheading 8703.10)	
870323	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with only spark-ignition internal combustion reciprocating piston engine of a cylinder capacity > 1.500 cm ³ but ≤ 3.000 cm ³ (excl. vehicles for travelling on snow and other specially designed vehicles of subheading 8703.10)	P206
870324	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with only spark-ignition internal combustion reciprocating piston engine of a cylinder capacity > 3.000 cm ³ (excl. vehicles for travelling on snow and other specially designed vehicles of subheading 8703.10)	P206
870331	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with only diesel engine of a cylinder capacity ≤ 1.500 cm ³ (excl. vehicles for travelling on snow and other specially designed vehicles of subheading 8703.10)	P206
870332	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with only diesel engine of a cylinder capacity > 1.500 cm ³ but ≤ 2.500 cm ³ (excl. vehicles for travelling on snow and other specially designed vehicles of subheading 8703.10)	P206
870333	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with only diesel engine of a cylinder capacity > 2.500 cm ³ (excl. vehicles for travelling on snow and other specially designed vehicles of subheading 8703.10)	P206
870340	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with both spark-ignition internal combustion reciprocating piston engine and electric motor as motors for propulsion (excl. vehicles for travelling on snow, other specially designed vehicles of subheading 8703.10 and plug-in hybrids)	P206
870350	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with both diesel engine and electric motor as motors for propulsion (excl. vehicles for travelling on snow, other specially designed vehicles of subheading 8703.10 and plug-in hybrids)	P206
870360	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with both spark-ignition internal combustion reciprocating piston engine and electric motor as motors for propulsion, capable of being charged by plugging to external source of electric power (excl. vehicles for travelling on snow and other specially designed vehicles of subheading 8703.10)	P206
870370	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with both diesel engine and electric motor as motors for propulsion, capable of being charged by plugging to external source of electric power (excl. vehicles for travelling on snow and other specially designed vehicles of subheading 8703.10)	P206
870380	Motor cars and other motor vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with only electric motor for propulsion (excl. vehicles for travelling on snow and other specially designed vehicles of subheading 8703.10)	P206
870390	Motor cars and other vehicles principally designed for the transport of <10 persons, incl. station wagons and racing cars, with engines other than internal combustion piston engine or electric motor (excl. vehicles for the transport of persons on snow and other specially designed vehicles of subheading 8703.10)	P206
870410	Dumpers for off-highway use	P207
870421	Motor vehicles for the transport of goods, with compression-ignition internal combustion piston engine (diesel or semi-diesel) engine of a gross vehicle weight ≤ 5 t (excl. dumpers for off-highway use of subheading 8704.10 and special purpose motor vehicles of heading 8705)	P207
870422	Motor vehicles for the transport of goods, with compression-ignition internal combustion piston engine (diesel or semi-diesel) engine of a gross vehicle weight > 5 t but ≤ 20 t (excl. dumpers for off-highway use of subheading 8704.10 and special purpose motor vehicles of heading 8705)	P207
870423	Motor vehicles for the transport of goods, with compression-ignition internal combustion piston engine (diesel or semi-diesel) engine of a gross vehicle weight > 20 t (excl. dumpers	P207

	for off-highway use of subheading 8704.10 and special purpose motor vehicles of heading 8705)	
870431	Motor vehicles for the transport of goods, with spark-ignition internal combustion piston engine, of a gross vehicle weight ≤ 5 t (excl. dumpers for off-highway use of subheading 8704.10 and special purpose motor vehicles of heading 8705)	P207
870432	Motor vehicles for the transport of goods, with spark-ignition internal combustion piston engine, of a gross vehicle weight > 5 t (excl. dumpers for off-highway use of subheading 8704.10 and special purpose motor vehicles of heading 8705)	P207
870490	Motor vehicles for the transport of goods, with engines other than internal combustion piston engine (excl. dumpers for off-highway use of subheading 8704.10 and special purpose motor vehicles of heading 8705)	P207
870510	Crane lorries (excl. breakdown lorries)	P208
870520	Mobile drilling derricks	P208
870530	Fire fighting vehicles (excl. vehicles for transporting persons)	P208
870540	Concrete-mixer lorries	P208
870590	Special purpose motor vehicles (other than those principally designed for the transport of persons or goods and excl. concrete-mixer lorries, fire fighting vehicles, mobile drilling derricks and crane lorries)	P208
870911	Electrical vehicles not fitted with lifting or handling equipment, of the type used in factories, warehouses, dock areas or airports for short distance transport of goods; tractors of the type used on railway station platforms	P209
870919	Works trucks, self-propelled, not fitted with lifting or handling equipment, of the type used in factories, warehouses, dock areas or airports for short distance transport of goods; tractors of the type used on railway station platforms (excl. electrical trucks)	P209
871000	Tanks and other armoured fighting vehicles, motorised, whether or not fitted with weapons, and parts of such vehicles, n.e.s.	P210
871110	Motorcycles, incl. mopeds, with reciprocating internal combustion piston engine of a cylinder capacity ≤ 50 cm ³	P211
871120	Motorcycles, incl. mopeds, with reciprocating internal combustion piston engine of a cylinder capacity > 50 cm ³ but ≤ 250 cm ³	P211
871130	Motorcycles, incl. mopeds, with reciprocating internal combustion piston engine of a cylinder capacity > 250 cm ³ but ≤ 500 cm ³	P211
871140	Motorcycles, incl. mopeds, with reciprocating internal combustion piston engine of a cylinder capacity > 500 cm ³ but ≤ 800 cm ³	P211
871150	Motorcycles, incl. mopeds, with reciprocating internal combustion piston engine of a cylinder capacity > 800 cm ³	P211
871160	Motorcycles, incl. mopeds, and cycles fitted with an auxiliary motor, with electric motor for propulsion	P211
871190	Motorcycles, incl. mopeds, and cycles fitted with an auxiliary motor and side cars for motorcycles (excl. electric or with reciprocating internal combustion piston engine)	P211
871200	Bicycles and other cycles, incl. delivery tricycles, not motorised	P212
871310	Carriages for disabled persons, not mechanically propelled	P213
871390	Carriages for disabled persons, motorised or otherwise mechanically propelled (excl. specially designed motor vehicles and bicycles)	P213
871610	Trailers and semi-trailers of the caravan type, for housing or camping	P214
871631	Tanker trailers and tanker semi-trailers, not designed for running on rails	P214
871639	Trailers and semi-trailers for the transport of goods, not designed for running on rails (excl. self-loading or self-unloading trailers and semi-trailers for agricultural purposes and tanker trailers and tanker semi-trailers)	P214
871640	Trailers and semi-trailers, not designed for running on rails (excl. trailers and semi-trailers for the transport of goods and those of the caravan type for housing or camping)	P214
880100	Balloons and dirigibles; gliders, hang gliders and other non-powered aircraft	P215
880211	Helicopters of an unladen weight ≤ 2.000 kg	P216
880212	Helicopters of an unladen weight > 2.000 kg	P216
880220	Aeroplanes and other powered aircraft of an unladen weight ≤ 2.000 kg (excl. helicopters and dirigibles)	P216
880230	Aeroplanes and other powered aircraft of an unladen weight > 2.000 kg but ≤ 15.000 kg (excl. helicopters and dirigibles)	P216

880240	Aeroplanes and other powered aircraft of an of an unladen weight > 15.000 kg (excl. helicopters and dirigibles)	P216
880260	Spacecraft, incl. satellites, and suborbital and spacecraft launch vehicles	P217
890110	Cruise ships, excursion boats and similar vessels principally designed for the transport of persons; ferry-boats of all kinds	P218
890120	Tankers	P218
890130	Refrigerated vessels (excl. tankers)	P218
890190	Vessels for the transport of goods and vessels for the transport of both persons and goods (excl. refrigerated vessels, tankers, ferry-boats and vessels principally designed for the transport of persons)	P218
890200	Fishing vessels; factory ships and other vessels for processing or preserving fishery products (excl. fishing boats for sport)	P218
890310	Inflatable vessels for pleasure or sports	P220
890391	Sailboats and yachts, with or without auxiliary motor, for pleasure or sports	P220
890392	Motor boats and motor yachts, for pleasure or sports (other than outboard motor boats)	P220
890399	Vessels for pleasure or sports; rowing boats (excl. motor boats and motor yachts powered other than by outboard motors, sailboats and yachts with or without auxiliary motor and inflatable boats)	P220
890400	Tugs and pusher craft	P221
890510	Dredgers	P221
890520	Floating or submersible drilling or production platforms	P222
890590	Light-vessels, fire-floats, floating cranes and other vessels, the navigability of which is subsidiary to their main function (excl. dredgers, floating or submersible drilling or production platforms; fishing vessels and warships)	P221
890610	Warships of all kinds	P221
890690	Vessels, incl. lifeboats (excl. warships, rowing boats and other vessels of heading 8901 to 8905 and vessels for breaking up)	P221
890710	Inflatable rafts	P222
890790	Rafts, tanks, coffer-dams, landing stages, buoys, beacons and other floating structures (excl. inflatable rafts, vessels of heading 8901 to 8906 and floating structures for breaking up)	P222
900311	Frames and mountings for spectacles, goggles or the like, of plastics	P507
900410	Sunglasses	P507
900490	Spectacles, goggles and the like, corrective, protective or other (excl. spectacles for testing eyesight, sunglasses, contact lenses, spectacle lenses and frames and mountings for spectacles)	P507
900510	Binoculars	P507
900580	Monoculars, astronomical and other optical telescopes and other astronomical instruments (excl. binoculars, instruments for radio-astronomy and other instruments or apparatus specified elsewhere)	P507
901831	Syringes, with or without needles, used in medical, surgical, dental or veterinary sciences	P803
940140	Seats, convertible into beds (excl. garden seats and camping equipment, and medical, dental or surgical furniture)	P504
940180	Seats, n.e.s.	P504
940370	Furniture of plastics (excl. medical, dental, surgical or veterinary, and seats)	P504
940430	Sleeping bags, whether or non-electrically heated	P702
940490	Articles of bedding and similar furnishing, fitted with springs or stuffed or internally filled with any material or of cellular rubber or plastics (excl. mattress supports, mattresses, sleeping bags, pneumatic or water mattresses and pillows, blankets and covers)	P702
940550	Non-electrical lamps and lighting fittings, n.e.s.	P505
940560	Illuminated signs, name-plates and the like	P807
940592	Parts of lamps and lighting fittings, illuminated signs and nameplates and the like, of plastics, n.e.s.	P307
940690	Prefabricated buildings, whether or not complete or already assembled (excl. of wood)	P308

950300	Tricycles, scooters, pedal cars and similar wheeled toys; dolls' carriages; dolls; other toys; reduced-size ("scale") models and similar recreational models, working or not; puzzles of all kinds.	P510
950510	Christmas articles (excl. candles and electric lighting sets, natural Christmas trees and Christmas tree stands)	P513
950590	Festival, carnival or other entertainment articles, incl. conjuring tricks and novelty jokes, n.e.s.	P513
950632	Golf balls	P511
950662	Inflatable balls	P511
950669	Balls (excl. inflatable, tennis balls, golf balls, and table-tennis balls)	P511
960321	Tooth brushes, incl. dental-plate brushes	P509
960329	Shaving brushes, hair brushes, nail brushes, eyelash brushes and other brushes for use on the person (excl. tooth brushes)	P509
960330	Artists' brushes, writing brushes and similar brushes for the application of cosmetics	P509
960340	Paint, distemper, varnish or similar brushes, paint pads and rollers (excl. artists' and similar brushes of subheading 9603.30)	P509
960350	Brushes constituting parts of machines, appliances or vehicles	P509
960390	Mops and leather dusters; prepared knots and tufts for broom or brush making; squeegees of rubber or other flexible materials; brooms and brushes, n.e.s.	P509
960500	Travel sets for personal toilet, sewing or shoe or clothes cleaning (excl. manicure sets)	P506
960810	Ball-point pens	P502
960820	Felt-tipped and other porous-tipped pens and markers	P502
960830	Fountain pens, stylograph pens and other pens	P502
960840	Propelling or sliding pencils	P502
960850	Sets of articles from two or more of the following: ball-point pens, felt or fibre-tipped pens and markers, fountain pens and propelling pencils	P502
960860	Refills for ball-point pens, comprising the ball-point and ink-reservoir	P502
960891	Pen nibs and nib points	P502
960899	Parts of ball-point pens, felt-tipped and other porous-tipped pens and markers, fountain pens and propelling pencils n.e.s, pencil-holders, pen-holders and the like, and duplicating stylos	P502
961310	Pocket lighters, gas fuelled, non-refillable	P508
961320	Pocket lighters, gas fuelled, refillable	P508
961380	Lighters (excl. gas fuelled pocket lighters, and fuses and primers for propellant powders and explosives)	P508
961400	Smoking pipes, incl. pipe bowls, cigar or cigarette holders, and parts thereof, n.e.s.	P508
961511	Combs, hair-slides and the like of hard rubber or plastics	P509
961800	Tailors' dummies and other lay figures, automata and other animated displays used for shop window dressing (excl. the articles actually on display, educational models and toy dolls)	P805
962000	Monopods, bipods, tripods and similar articles	P802

Annex 6: Correspondence table between CPC codes and the Plastic-KEYs

CPC Code	CPC Description	Plastic-KEY
21321	Tomato juice	P103
21329	Other vegetable juices	P103
21431	Orange juice	P103
21432	Grapefruit juice	P103
21433	Pineapple juice	P103
21434	Grape juice	P103
21435	Apple juice	P103
21439	Other fruit juices, n.e.c.	P103
21495	Nuts, groundnuts and other seeds, roasted, salted or otherwise prepared n.e.c.	P108
21612	Soya bean oil, refined	P106
21632	Sunflower-seed and safflower-seed oil, refined	P106
23140	Other cereal grain products (including corn flakes)	P108
23710	Uncooked pasta, not stuffed or otherwise prepared	P108
23721	Pasta, cooked, stuffed or otherwise prepared (but not as a complete dish); couscous, except as a complete dish	P108
23722	Prepared dishes containing stuffed pasta; prepared couscous dishes	P108
23997	Other prepared dishes and meals	P108
24410	Bottled waters, not sweetened or flavoured	P104
24490	Other non-alcoholic caloric beverages	P105
27180	Quilts, eiderdowns, cushions, pouffes, pillows, sleeping bags and the like, fitted with springs or stuffed or internally fitted with any material or of cellular rubber or plastics	P702
27220	Carpets and other textile floor coverings, woven, not tufted or flocked	P704
27230	Carpets and other textile floor coverings, tufted	P704
27290	Other carpets and textile floor coverings (including those of felt)	P704
27320	Knotted netting of twine, cordage or rope; made up nets of textile materials; articles of yarn, strip, twine, cordage, rope or cables n.e.c.	P808
28210	Panty hose, tights, stockings, socks and other hosiery, knitted or crocheted	P701
28221	Men's or boys' suits, coats, jackets, trousers, shorts, and the like, knitted or crocheted	P701
28222	Men's or boys' shirts, underpants, pyjamas, dressing gowns, and similar articles, knitted or crocheted	P701
28223	Women's or girls' suits, coats, jackets, dresses, skirts, trousers, shorts and the like, knitted or crocheted	P701
28224	Women's or girls' blouses, shirts, petticoats, panties, nightdresses, dressing gowns, and similar articles, knitted or crocheted	P701
28226	Jerseys, pullovers, cardigans, waistcoats, and similar articles, knitted or crocheted	P701
28227	Babies' garments and clothing accessories, knitted or crocheted	P701
28228	Track suits, ski suits, swimwear and other garments, knitted or crocheted n.e.c.	P701
28229	Gloves, shawls, scarves, veils, ties, cravats and other made-up clothing accessories, knitted or crocheted; knitted or crocheted parts of garments or of clothing accessories	P701
28231	Men's or boys' suits, coats, jackets, trousers, shorts, and the like, of textile fabric, not knitted or crocheted	P701
28232	Men's or boys' shirts, singlets, underpants, pyjamas, dressing gowns, and similar articles, of textile fabric, not knitted or crocheted	P701
28233	Women's or girls' suits, coats, jackets, dresses, skirts, trousers, shorts, and the like, of textile fabric, not knitted or crocheted	P701
28234	Women's or girls' blouses, shirts, singlets, petticoats, panties, nightdresses, dressing gowns, and similar articles, of textile fabric, not knitted or crocheted	P701
28235	Babies' garments and clothing accessories, of textile fabric, not knitted or crocheted	P701

28236	Track suits, ski suits, swimwear, and other garments, of textile fabric, not knitted or crocheted n.e.c.	P701
28237	Brassieres, girdles, corsets, braces, suspenders, garters, and similar articles and parts thereof, whether or not knitted or crocheted	P701
28238	Handkerchiefs, shawls, scarves, veils, ties, cravats, gloves, and other made-up clothing accessories, of textile fabric, not knitted or crocheted; parts of garments or of clothing accessories, of textile fabric, not knitted or crocheted n.e.c.	P701
28243	Apparel and clothing accessories of plastics (incl. gloves)	P703
28250	Garments made up of felt or nonwovens; garments made up of textile fabrics impregnated or coated with plastics, rubber or other materials	P701
28261	Hat-forms, hat bodies, and hoods of felt; plateaux and manchons of felt; hat-shapes, plaited, or made by assembling strips of any material	P701
28262	Hats and other headgear, of felt, or plaited or made by assembling strips of any material, or knitted or crocheted or made up from lace or other textile fabric in the piece; hair-nets	P701
28269	Other headgear except headgear of rubber or of plastics, safety headgear and asbestos headgear; head-bands, linings, covers, hat foundations, hat frames, peaks and chinstraps, for headgear	P701
28330	Artificial fur and articles thereof (except headgear)	P705
29220	Luggage, handbags and the like, of leather, composition leather, plastics sheeting, textile materials, vulcanized fibre or paperboard; travel sets for personal toilet, sewing or shoe or clothes cleaning	P506
35290	Other articles for medical or surgical purposes	P803
35323	Perfume and toilet preparations	P107
36320	Tubes, pipes and hoses, and fittings therefor, of plastics	P301
36330	Plates, sheets, film, foil and strip, of plastics, not self-adhesive, non-cellular and not reinforced, laminated, supported or similarly combined with other materials	P304
36390	Other plates, sheets, film, foil and strip, of plastics	P305
36410	Sacks and bags, of plastics	P102
36490	Other articles for the conveyance or packaging of goods, of plastics; stoppers, lids, caps and other closures, of plastics	P101
36910	Floor coverings of plastics, in rolls or in the form of tiles; wall or ceiling coverings of plastics	P302
36920	Self-adhesive plates, sheets, film, foil, tape, strip and other flat shapes, of plastics	P303
36930	Baths, wash-basins, lavatory pans and covers, flushing cisterns and similar sanitary ware, of plastics	P306
36940	Tableware, kitchenware, other household articles and toilet articles, of plastics	P501
36950	Builders' ware of plastics n.e.c.	P307
36960	Parts n.e.c. of lamps, lighting fittings, illuminated signs, illuminated name-plates and the like, of plastics	P307
36971	Safety headgear	P307
36972	Other headgear, of rubber or plastics	P307
36980	Electrical insulating fittings of plastics	P308
36990	Articles of plastics n.e.c.	P502
36990	Articles of plastics n.e.c.	P504
36990	Articles of plastics n.e.c.	P801
36990	Articles of plastics n.e.c.	P802
36990	Articles of plastics n.e.c.	P809
38112	Seats, primarily with wooden frames	P504
38119	Other seats	P504
38140	Other furniture n.e.c.	P504
38440	Other articles and equipment for sports or outdoor games	P511
38510	Dolls' carriages; wheeled toys designed to be ridden by children	P510
38520	Dolls representing human beings; toys representing animals or non-human creatures	P510
38530	Parts and accessories of dolls representing human beings	P510

38540	Toy electric trains and tracks, signals and other accessories therefor; reduced-size ("scale") model assembly kits and other construction sets and constructional toys	P510
38550	Puzzles	P510
38560	Other toys (including toy musical instruments)	P510
38703	Prefabricated buildings, of plastics	P308
38911	Pens, duplicating stylos, pencils, pen-holders, pencil-holders and similar holders, and parts thereof; crayons, pencil leads, pastels, drawing charcoals and chalks	P502
38921	Umbrellas, sun-umbrellas, walking-sticks, seat-sticks, whips, riding-crops and the like	P503
38972	Human hair, dressed, thinned, bleached or otherwise worked; wool or other animal hair or other textile materials, prepared for use in making wigs or the like; wigs, false beards, eyebrows and eyelashes, switches and the like, of human or animal hair or of textile materials; articles of human hair n.e.c.	P512
38991	Festive, carnival or other entertainment articles, including conjuring tricks and novelty jokes	P513
38993	Brooms, brushes, hand-operated mechanical floor sweepers (not motorized), mops and feather dusters; prepared knots and tufts for broom or brush-making; paint pads and rollers; squeegees (other than roller squeegees)	P509
38994	Cigarette lighters and other lighters; smoking pipes and cigar or cigarette holders, and parts thereof; combs, hair-slides and the like; hairpins, curling pins, curling grips, hair-curlers and the like (except electro-thermic apparatus), and parts thereof; scent sprays and similar toilet sprays, and mounts and heads therefor; powder-puffs and pads for the application of cosmetics or toilet preparations	P508
38994	Cigarette lighters and other lighters; smoking pipes and cigar or cigarette holders, and parts thereof; combs, hair-slides and the like; hairpins, curling pins, curling grips, hair-curlers and the like (except electro-thermic apparatus), and parts thereof; scent sprays and similar toilet sprays, and mounts and heads therefor; powder-puffs and pads for the application of cosmetics or toilet preparations	P509
38999	Articles n.e.c. (including candles, tapers, skins of birds with their feathers, artificial flowers, entertainment articles, hand sieves, hand riddles, vacuum flasks, tailors' dummies, animated displays used for shop window dressing, and parts n.e.c.)	P509
38999	Articles n.e.c. (including candles, tapers, skins of birds with their feathers, artificial flowers, entertainment articles, hand sieves, hand riddles, vacuum flasks, tailors' dummies, animated displays used for shop window dressing, and parts n.e.c.)	P805
42921	Hand tools (including hand tools of a kind used in agriculture, horticulture or forestry, handsaws, files, pliers and metal cutting shears, hand-operated spanners, blow-lamps and clamps)	P804
43530	Fork-lift trucks; other works trucks whether fitted with lifting or handling equipment; tractors of the type used on railway station platforms	P209
44141	Pedestrian controlled tractors	P204
44142	Track-laying tractors	P204
44149	Other agricultural tractors	P204
44428	Dumpers designed for off-highway use	P207
44710	Tanks and other armoured fighting vehicles, motorized, and parts thereof	P210
46531	Portable electric lamps designed to function by their own source of energy (except those for cycles or motor vehicles); electric ceiling or wall lighting fittings (except those for lighting public open spaces or thoroughfares); electric table, desk, bedside or floor-standing lamps; non-electrical lamps and lighting fittings; illuminated signs, illuminated name-plates, and the like	P505
46531	Portable electric lamps designed to function by their own source of energy (except those for cycles or motor vehicles); electric ceiling or wall lighting fittings (except those for lighting public open spaces or thoroughfares); electric table, desk, bedside or floor-standing lamps; non-electrical lamps and lighting fittings; illuminated signs, illuminated name-plates, and the like	P807
48150	Other instruments and appliances used in medical, surgical or veterinary sciences (including syringes, needles, catheters, cannulae, ophthalmic instruments and appliances n.e.c. and electro-medical apparatus n.e.c.)	P803
48312	Spectacles, goggles and the like, corrective, protective, or other	P507
48313	Frames and mountings for spectacles, goggles, or the like	P507
48314	Binoculars, monoculars, and other optical telescopes; other astronomical instruments, except instruments for radio-astronomy; compound optical microscopes	P507
48341	Photographic plates and film and instant print film, sensitized, unexposed	P806
49111	Road tractors for semi-trailers	P204

49112	Public-transport type passenger motor vehicles	P205
49113	Motor cars and other motor vehicles principally designed for the transport of persons (except public-transport type vehicles, vehicles specially designed for travelling on snow, and golf cars and similar vehicles)	P206
49114	Motor vehicles n.e.c. for the transport of goods	P207
49115	Crane lorries	P208
49116	Motor vehicles, for the transport of persons, specially designed for travelling on snow; golf cars and similar vehicles	P205
49119	Special-purpose motor vehicles n.e.c.	P208
49222	Trailers and semi-trailers of the caravan type, for housing or camping	P214
49229	Other trailers and semi-trailers (including trailers and semi-trailers for the transport of goods), except self-loading or self-unloading trailers or semi-trailers for agricultural purposes	P214
49311	Cruise ships, excursion boats and similar vessels, principally designed for the transport of persons; ferry boats of all kinds	P218
49312	Tankers (ships)	P218
49313	Refrigerator vessels (ships), except tankers	P218
49314	Other vessels for the transport of goods and other vessels for the transport of both persons and goods	P218
49315	Fishing vessels; factory ships and other vessels for processing or preserving fishery products	P218
49316	Tugs and pusher craft	P221
49319	Other vessels (including light-vessels, fire-floats, dredgers, floating cranes, floating docks, warships and lifeboats other than rowing boats), except floating or submersible drilling or production platforms	P221
49320	Floating or submersible drilling or production platforms	P222
49390	Other floating structures	P222
49410	Sailboats (except inflatable), with or without auxiliary motor	P220
49490	Other vessels for pleasure or sports; rowing boats and canoes	P220
49511	Rail locomotives powered from an external source of electricity	P201
49512	Diesel-electric locomotives	P201
49519	Other rail locomotives; locomotive tenders	P201
49520	Self-propelled railway or tramway coaches, vans and trucks (except maintenance or service vehicles)	P202
49531	Railway or tramway maintenance or service vehicles, whether or not self-propelled	P223
49532	Railway or tramway passenger coaches, not self-propelled; luggage vans, post office coaches and other special-purpose railway or tramway coaches, not self-propelled (except maintenance or service vehicles)	P203
49533	Railway or tramway goods vans and wagons, not self-propelled	P203
49610	Balloons and dirigibles; gliders, hang gliders and other non-powered aircraft	P215
49621	Helicopters	P216
49622	Aeroplanes and other powered aircraft of an unladen weight not exceeding 2000 kg	P216
49623	Aeroplanes and other powered aircraft of an unladen weight exceeding 2000 kg	P216
49630	Spacecraft and spacecraft launch vehicles	P217
49911	Motorcycles and cycles fitted with an auxiliary motor, with reciprocating internal combustion piston engine of a cylinder capacity not exceeding 50 cc	P211
49912	Motorcycles and cycles fitted with an auxiliary motor, with reciprocating internal combustion piston engine of a cylinder capacity exceeding 50 cc	P211
49913	Motorcycles and cycles fitted with an auxiliary motor, other than those with reciprocating internal combustion piston engines; side-cars	P211
49921	Bicycles and other cycles, not motorized	P212
49922	Invalid carriages	P213

Annex 7: Polymer composition of different Plastic-KEY Groups (adapted from Jambeck et al.¹)

Plastic-KEY Group	PE	PP	PS	PVC	PET	PUR	Other
P1 Packaging	51%	18%	5%	2%	23%	0%	0%
P2 Transport	13%	38%	0%	4%	0%	24%	21%
P3 Building and construction	23%	6%	12%	43%	0%	13%	3%
P5 Consumer and institutional products	38%	32%	15%	5%	0%	8%	2%
P7 Apparel and textile furnishing articles	1%	4%	0%	1%	82%	2%	11%
P8 Other	20%	32%	5%	11%	0%	19%	13%

¹ Jambeck, J.R., Andrady, A., Geyer, R., Narayan, R., Perryman, M., Siegler, T., Wilcox, C., Lavender Law, K., 2015, Plastic waste inputs from land into the ocean, Science, 347, pp. 768-771.