

Plastics use by applicationUtilisation de plastiques par application

Plastics use by application

Database Specific

Abstract

Global Plastics Outlook - plastics use by polymer

Source

Contact person/organisation

env.linkages@oecd.org

Data source(s) used

OECD ENV-Linkages model

Geyer, Jambeck and Law (2017)

Ryberg et al. (2019)

The methodology to derive secondary plastic volumes is explained in the Annex to the OECD Global Plastics Outlook.

- ENV-Linkages model <<https://www.oecd.org/environment/indicators-modelling-outlooks/modelling.htm>>
- OECD Global Plastics Outlook <<https://doi.org/10.1787/de747aef-en>>
- Geyer, Jambeck and Law (2017) <<http://dx.doi.org/10.1126/sciadv.1700782>>
- Ryberg et al. (2019) <<http://dx.doi.org/10.1016/j.resconrec.2019.104459>>

Data Characteristics

Base period

2015

Date last updated

09-Feb-22

Power code

Millions

Reference period

1990-2019

Unit of measure used

Tonnes (t) of plastics

Population Scope

Geographic coverage

This dataset provides estimates of plastics use at the global level.

Item coverage

This dataset provides estimates of plastics use disaggregated by polymer.

Concepts Classifications

Other manipulations

Primary plastics use is estimated using regional consumption by application data from Ryberg et al. (2019). An assumption of the split by polymer by application is made that it is homogenous to the global values. Historical values (pre-2015 data) is extrapolated from 2015 data using the global evolution contained in Geyer, Jambeck and Law (2017).

Secondary plastics use are derived using recycling rates and recycling loss rates, as described in the GPO annex. The plastics use data is associated with the economic flows in the OECD ENV-Linkages model to estimate changes over time. The total plastics use is equal to the sum of primary and secondary plastics use.