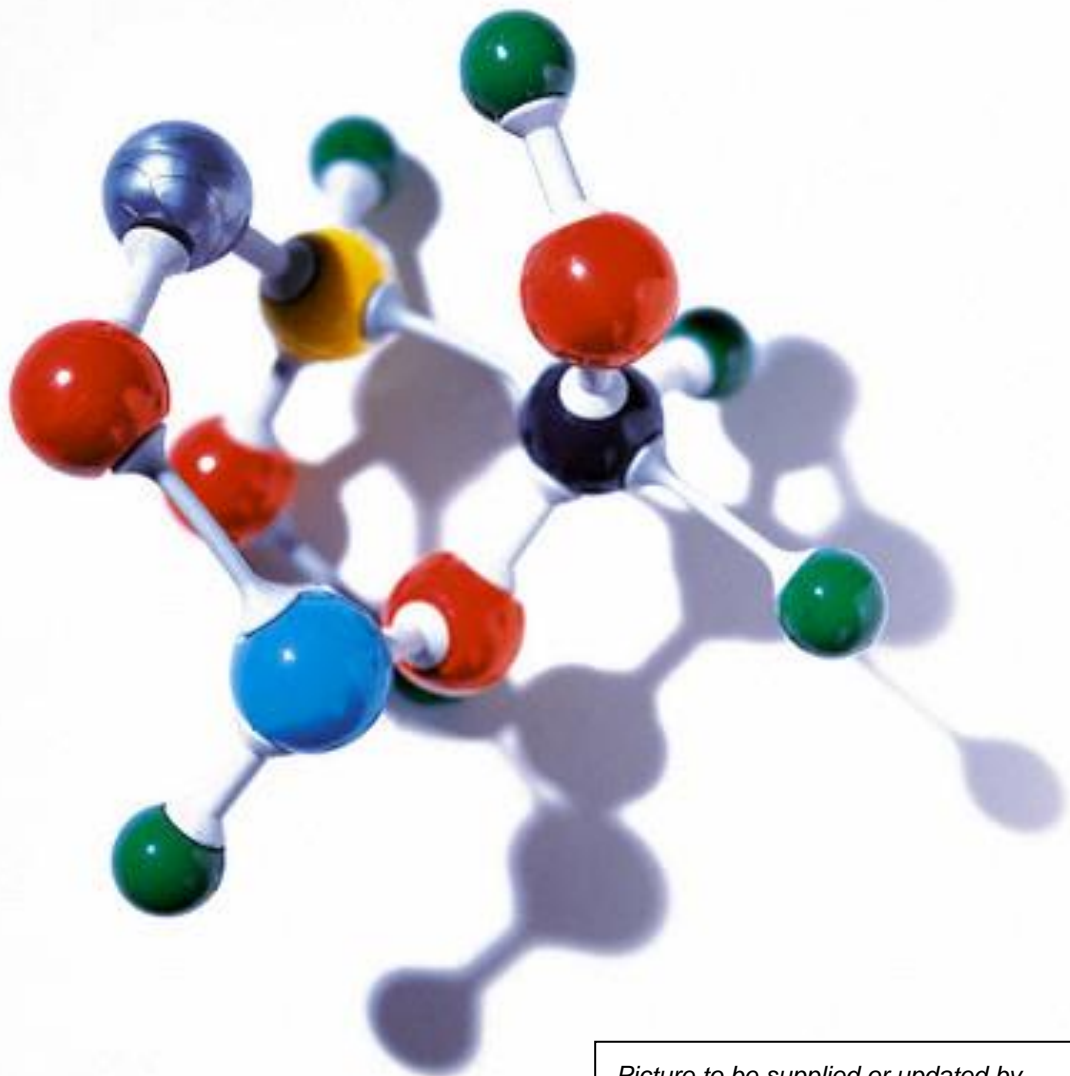


Eco-profile report
framework according
to methodology V3.0
(October 2019)



*Picture to be supplied or updated by
the data owner with statement of
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Eco-profile of XXXXX
Month Year

Summary

This Eco-profile has been prepared according to **Eco-profiles program and methodology – PlasticsEurope – V3.0 (2019)**.

It provides environmental performance data representative of the average European production of XXXXX, from cradle to gate (from crude oil extraction to XXXXX production).

Please keep in mind that comparisons cannot be made on the level of the polymer material alone: it is necessary to consider the full life cycle of an application in order to compare the performance of different materials and the effects of relevant life cycle parameters. It is intended to be used by member companies, to support product-orientated environmental management; by users of plastics, as a building block of life cycle assessment (LCA) studies of individual products; and by other interested parties, as a source of life cycle information.

Meta Data

Data Owner	Product Group
LCA Practitioner	
Programme Owner	PlasticsEurope AISBL
Programme Manager, Reviewer	
Number of plants included in data collection	
Representativeness	
Reference year	
Year of data collection and calculation	
Expected temporal validity	
Cut-offs	
Data Quality	
Allocation method	

Description of the Product and the Production Process

Data Sources and Allocation

Environmental Performance

The tables below show the environmental performance indicators associated with the production of 1 kg of XXXXX

Input Parameters

Indicator	Unit	Value	Impact method ref.
Non-renewable energy resources ¹⁾			
• Fuel energy	MJ		
• Feedstock energy	MJ		
Renewable energy resources (biomass) ¹⁾			
• Fuel energy	MJ	0.7	
• Feedstock energy	MJ	–	
Abiotic Depletion Potential			
• Elements	kg Sb eq.		
• Fossil fuels	MJ		
Renewable materials (biomass)	kg		
Water use	kg		
• for process	kg		
• for cooling	kg		
¹⁾ Calculated as upper heating value (UHV)			

Output Parameters

Indicator	Unit	Value	Impact method ref.
GWP	kg CO ₂ eq.		
ODP	g CFC-11 eq.		
AP	g SO ₂ eq.		
POCP	g Ethene eq.		
EP	g PO ₄ eq.		
Dust/particulate matter ²⁾	g PM10		
Total particulate matter ²⁾	g		
Waste			
• Non-hazardous	kg		
• Hazardous	kg		
²⁾ Including secondary PM10			

Additional Environmental and Health Information

This part has been written under the only responsibility of the Data owner and is not part of the LCA practitioner and reviewer work.

Text to be filled in or revised by the data owner

Additional Technical Information

This part has been written under the only responsibility of the Data owner and is not part of the LCA practitioner and reviewer work.

Text to be filled in or revised by the data owner

Additional Economic Information

This part has been written under the only responsibility of the Data owner and is not part of the LCA practitioner and reviewer work.

Text to be filled in or revised by the data owner

Programme Owner

Contact details

Data Owner

Contact details

LCA practioner

Contact details

Reviewer

Contact details

Eco-profile Report

Functional Unit and Declared Unit

1 kg of unpacked XXXXX »at gate« (production site output) representing a European industry production average

Product Description

IUPAC name

Cas Number

Chemical formula

Gross caloric value

Manufacturing Description

Chemical route

Production process

Formula of the chemical reactions

Producer Description

The following companies have participated to the data collection.

Contact details of the participating companies

System Boundaries

Flowchart clearly showing background and foreground parts within the whole system boundaries.

Technological Reference

Temporal Reference

Geographical Reference

Cut-off Rules

Data Quality Requirements

Data Sources

Relevance

Representativeness

Consistency

Reliability

Completeness

Precision and Accuracy

Reproducibility

Data Validation

Life Cycle Model

Calculation Rules

Vertical Averaging

Allocation Rules

Life Cycle Inventory (LCI) Results

Delivery and Formats of LCI Dataset

This eco-profile comprises

- a dataset in ILCD format (<http://lct.jrc.ec.europa.eu>) according to the last version at the date of publication of the eco-profile and including the reviewer (internal and external) input.
- This report in pdf format.

Energy Demand

The **primary energy demand** (system input) of XX MJ/kg indicates the cumulative energy requirements at the resource level, accrued along the entire process chain (system boundaries), quantified as gross calorific value (upper heating value, UHV).

The **energy content in the polymer** indicates a measure of the share of primary energy incorporated in the product, and hence a recovery potential (system output), quantified as the gross calorific value (UHV), is XX MJ/kg.

The difference (Δ) between primary energy input and energy content in polymer output is a measure of **process energy** which may be either dissipated as waste heat or recovered for use within the system boundaries. Useful energy flows leaving the system boundaries were removed during allocation.

Primary energy demand (system boundary level) per 1kg XXXXX

Primary Energy Demand	Value [MJ]
Energy content in polymer (energy recovery potential, quantified as gross calorific value of polymer)	
Process energy (quantified as difference between primary energy demand and energy content of polymer)	
Total primary energy demand	

Water cradle to gate Consumption and if possible, water use

Water foreground (gate to gate) Use and Consumption

The following table shows the weighted average values for water use of the XXXXX production process (gate-to-gate level). For each of the typical water applications the water sources are shown.

Comparison of the present Eco-profile with its previous version

Table : *Comparison of the present Eco-profile with its previous version*

	Eco-profile Previous (date of publication)	Eco-profile New (date of publication)	Difference (%)
Environmental Impact Categories			
Gross primary energy from resources [MJ]			
Abiotic Depletion Potential (ADP), elements [kg Sb eq.]			
Abiotic Depletion Potential (ADP), fossil fuels [MJ]			
Global Warming Potential (GWP) [kg CO ₂ eq.]			
Acidification Potential (AP) [g SO ₂ eq.]			
Eutrophication Potential (EP) [g PO ₄ ³⁻ eq.]			
Ozone Depletion Potential (ODP) [g CFC-11 eq.]			
Photochemical Ozone Creation Potential [g Ethene eq.]			
Others impact as relevant			

Review

Review Details

Review Summary

Reviewer Contact Details