

# XPAK Mailers

from



## Environmental Product Declaration

In accordance with ISO 14025

<b>PROGRAMME:</b>	The International EPD® System, <a href="http://www.environdec.com">www.environdec.com</a>
<b>PROGRAMME OPERATOR:</b>	EPD International AB
<b>EPD REGISTRATION NUMBER:</b>	S-P-09871
<b>PUBLICATION DATE:</b>	2024-03-12
<b>VALID UNTIL:</b>	2029-03-12



The environmental impacts of different EPDs can be compared only taking into account all the technical information supporting the declared/functional unit definition as requested by the PCR.

An EPD should provide current information and may be updated if conditions change.

The stated validity is therefore subject to the continued registration and publication at [www.environdec.com](http://www.environdec.com).



# EPD Programme Information



Programme: The International EPD® System  
EPD International AB  
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Owner of the EPD: IPG  
Contact: [sustainability@itape.com](mailto:sustainability@itape.com)

The EPD owner has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable.

Product category rules (PCR): Packaging PCR 2019:13 Version 1.1.2 Valid until: 2024-11-08

PCR review was conducted by: Anna Bortoluzzi, Università degli Studi di Milano - Department of Chemistry, [anna.bortoluzzi@unimi.it](mailto:anna.bortoluzzi@unimi.it)

Independent third-party verification of the declaration and data, according to ISO 14025:2006:

EPD process certification     EPD verification

Third party verifier: Maggie Wildnauer, Lydia Schreiber  
WAP Sustainability Consulting

In case of recognised individual verifiers:  
Approved by: The International EPD® System

Procedure for follow-up of data during EPD validity involves third party verifier:

Yes     No

# XPAK Mailer



# IPG Company Information



Headquartered in Sarasota, Florida, IPG is a global provider of packaging and protective solutions across a diversified set of geographies and end-markets. The Company develops, manufactures, and sells a variety of solutions including paper and film-based pressure-sensitive and water-activated tapes, stretch and shrink films, protective packaging, woven and non-woven products and packaging machinery.

## Name and location of production site:

XPAK Mailer product line is manufactured at IPG facilities located at 808 E 113th St, Chicago, IL 60628, United States and 330 Humberline Dr, Etobicoke, ON M9W 1R5.



IPG Corporate Headquarters, Sarasota, Florida



IPG Facility, Chicago, Illinois



IPG Facility, Toronto, Ontario



# Our Locations

Company 

Product 

Content Declaration 

Environmental Performance 

Additional Information 

## NORTH AMERICA

- |                      |                   |                    |
|----------------------|-------------------|--------------------|
| 1. Ansonia, CT       | 8. Carlstadt, NJ  | 14. Everetts, NC   |
| 2. Atlanta, GA       | 9. Carrollton, TX | 15. Marysville, MI |
| 3. Bardstown, KY (2) | 10. Chicago, IL   | 16. Menasha, WI    |
| 5. Blythewood, SC    | 11. Corona, CA    | 17. Midland, NC    |
| 6. Brighton, CO      | 12. Cornwall, ON  | 18. Montreal, QC   |
| 7. Carbondale, IL    | 13. Danville, VA  | 19. Sarasota, FL   |

## EUROPE

- |                     |                        |
|---------------------|------------------------|
| 20. Schaumburg, IL  | 25. Flensburg, Germany |
| 21. Springfield, OH | 26. Porto, Portugal    |
| 22. Toronto, ON     | 27. Soest, Germany     |
| 23. Tremonton, UT   | 28. Widnes, UK         |
| 24. Truro, NS       |                        |

## ASIA

- |                          |
|--------------------------|
| 29. Chopanki, India      |
| 30. Daman, India         |
| 31. Dahej, India         |
| 32. Jiangmen City, China |
| 33. Karoli, India        |



# Our Vision

- Company 
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**VISION**<sup>®</sup> **ipg**

— TO BE THE —  
**GLOBAL LEADER**  
— IN —  
**PACKAGING**  
— AND —  
**PROTECTIVE**  
— SOLUTIONS —

**VALUES**

- PASSION
- PEOPLE
- INTEGRITY
- PERFORMANCE
- TEAMWORK

**STRATEGY**

- STRENGTHEN THE PRODUCT BUNDLE 
- EXPAND THE GLOBAL FOOTPRINT 
- EMBRACE SUSTAINABILITY 
- DRIVE OPERATIONAL EXCELLENCE 

# Our Commitment



"At IPG, we remain committed to the development and commercialization of more sustainable packaging solutions, and our partnership with leading organizations such as the Sustainable Packaging Coalition, ENERGY STAR, United Nations Global Compact, and others, is a demonstration of our commitment."

*Jay Bolus, Vice President, Sustainability*

IPG subscribes to externally developed economic, environmental, and social charters, principles and other initiatives that align with our sustainability efforts.



# Working with Experts



Worked closely with William McDonough

- Author of *Cradle to Cradle*
- Focused on the circular economy
- Complex evaluations and monitoring for improvement

*"Making the transition from less bad to more good"*  
Jay Bolus, VP Sustainability, IPG





# Our Circular Economy

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## Eliminating the concept of waste

Our Sustainable Product Design and Development Vision Statement directs the application of “safe and circular” concepts to our products’ design and development. We are committed to eliminating toxic substances from new and existing products and incorporating recycled and renewable materials while maintaining product performance. Achieving a circular economy is a long-term objective, and we are dedicated to working towards it.

The Circular Economy emulates natural life cycles, and eliminates the concept of waste so all products and their components become “food” for other systems- either biological (returning to nature) or technical (returning to industry).



# Product Information



Company



Product



Content Declaration



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Additional Information

## Product

**Product name:** XPAK Mailer

**Product description:**

Polyair's XPAK bubble mailers combine the tear, weather and puncture resistance of a courier envelope with the cushioning of a Duraliner bubble lining. Each XPAK mailer is made from polyethylene and is store drop-off recyclable. Shipping/postage costs for XPAKs are lower than many alternative packages. The white outer surface is ideal for high-quality printing and provides privacy for the customer.

**UN CPC code:**

UN CPC 3641

**Geographical scope:**

North America



# Product Information

Company 

Product 

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Product	IPG Production Facility	Dimensions
XPAK4 Mailer	Chicago, IL Toronto, ON	Opening (in) - 9.5" Depth (in) - 13.875" Lip Size (in) - 1.5"
XPAK5 Mailer	Chicago, IL Toronto, ON	Opening (in) - 10.5" Depth (in) - 15.375" Lip Size (in) - 1.5"
XPAK6 Mailer	Chicago, IL Toronto, ON	Opening (in) - 12.5" Depth (in) - 18.375" Lip Size (in) - 1.5"

# LCA Information



**Chicago results are representing the impacts of products made at both facilities.**

**Functional unit / declared unit:**

per one mailer

**Reference service life:**

single use

**Mass of the Reference Flow:**

XPAK4: 1.73E-02 kg/mailer

XPAK5: 2.11E-02 kg/mailer

XPAK6: 2.98E-02 kg/mailer

**Internal volume:**

XPAK4: 0.00460 m<sup>3</sup>

XPAK5: 0.00624 m<sup>3</sup>

XPAK6: 0.0106 m<sup>3</sup>

**Capacity:**

2.3 kg max for all mailer sizes

**Compression and destacking values:**

Compression and stacking values required by the reference PCR are not shown because they are not considered relevant by the market/customer to define the function of the product subject to this EPD.

**Time representativeness:**

Primary data for electricity and scrap rate at IPG production facility and material composition and supplier information from 2022.

**Database(s) and LCA software used:**

GaBi LCA Software version 8.0

Sphera database 2022, US LCI Database 2022

Chicago results have highest impacts



# LCA Information

Company 

Product 

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Environmental Performance 

Additional Information 

## Description of system boundaries:

Life cycle stage	Life cycle module	Life cycle module group	EPD Type
			Functional Unit: Cradle-Grave
Upstream	A1) Raw material supply	A1-A3) Product stage	Declared
	A2) Transport		Declared
	A3) Manufacturing		Declared
Downstream	A4) Transport to forming or filling	A4-A5) Forming stage	Module not declared, MND
	A5) Forming		Module not declared, MND
	B1) Filling operation	B1-B5) Use stage	Declared
	B2) Distribution of filled packaging		Declared
	B3) Transport to reconditioning		Module not declared, MND
	B4) Reconditioning		Module not declared, MND
	B5) Transport to re-filling point		Module not declared, MND
	C1) Disassembling/sorting	C1-C3) End of life stage	Declared
	C2) Transport to recovery/disposal		Declared
C3) Final disposal	Declared		

**Excluded lifecycle stages:** Downstream Module

**A4) Transport to Forming or Filling (Module Not Declared, MND)**

Product is sold unfilled to the final consumer and shipped to distributor from manufacturing facility

**A5) Packaging Forming (Module Not Declared, MND)**

Product is formed during manufacturing

**B3) Transport to Reconditioning (Module Not Declared, MND)**

Product is single use

**B4) Reconditioning (Module Not Declared, MND)**

Product is single use

**B5) Transport to Re-Filling Point (Module Not Declared, MND)**

Product is single use



# LCA Information XPAK Mailer Process System Diagram

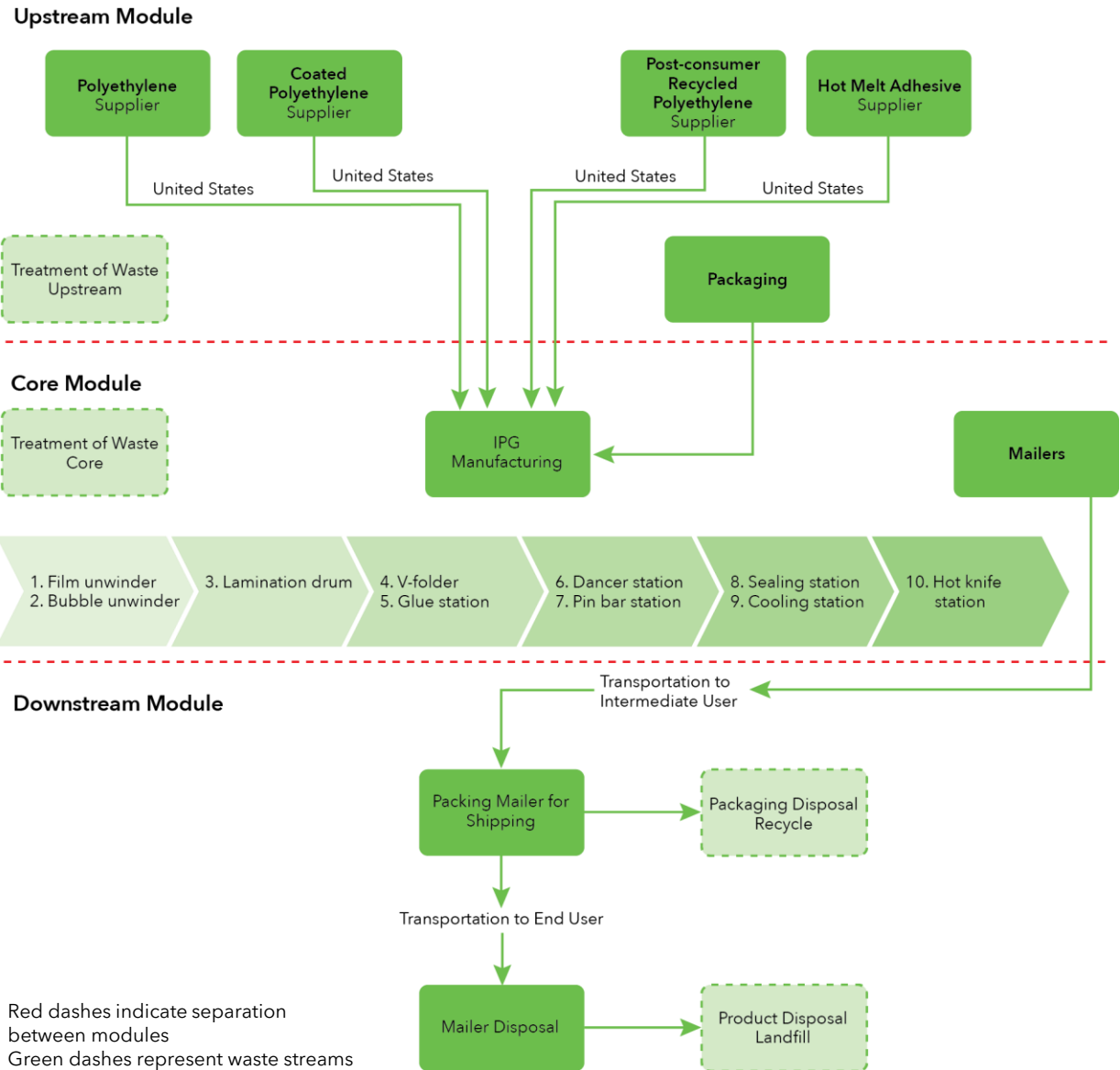
Company 

Product 

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Environmental Performance 

Additional Information 



- Red dashes indicate separation between modules
- Green dashes represent waste streams



# Content Declaration: XPAK4 Mailer

- Company 
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## Product

### Materials / chemical substances



Polyethylene (PE) Film

**85%**

**kg** 0.01465  
per mailer



Coated Polyethylene (PE)

**2%**

**kg** 0.0003  
per mailer



Hot Melt Adhesive

**2%**

**kg** 0.0003  
per mailer



Post-consumer Recycled  
Polyethylene (PE)

**12%**

**kg** 0.00205  
per mailer

## Packaging

### Distribution/Consumer packaging:

Corrugated cardboard box weighing 0.00712 kg per mailer.

## Recycled material

### Provenience of recycled materials (pre-consumer or post-consumer) in the product:

Bubble contains 25% post-consumer recycled (PCR) resin

# Environmental Performance: XPAK4 Mailer

Company 

Product 

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Environmental Performance 

Additional Information 

Indicator name	Unit	Module			
<b>Core environmental impact indicators</b>		<b>Upstream</b>	<b>Core</b>	<b>Downstream</b>	<b>Total</b>
Climate Change - total	kg CO <sub>2</sub> eq.	5.24E-02	1.34E-02	1.37E-02	7.95E-02
Climate Change - fossil	kg CO <sub>2</sub> eq.	5.26E-02	1.33E-02	9.55E-03	7.55E-02
Climate Change - biogenic	kg CO <sub>2</sub> eq.	-2.18E-04	1.51E-04	4.16E-03	4.09E-03
Climate Change - LULUC	kg CO <sub>2</sub> eq.	1.63E-05	4.67E-07	9.92E-08	1.69E-05
Ozone depletion	kg CFC-11 eq.	2.72E-12	1.27E-13	9.79E-14	2.94E-12
Acidification	Mole of H <sup>+</sup> eq.	1.43E-04	4.24E-05	4.42E-05	2.30E-04
Eutrophication, freshwater	kg P eq.	9.60E-08	4.13E-08	9.73E-07	1.11E-06
Eutrophication, marine	kg N eq.	3.51E-05	1.49E-05	2.36E-05	7.36E-05
Eutrophication, terrestrial	mol N eq.	3.81E-04	1.59E-04	1.87E-04	7.27E-04
Photochemical ozone formation	kg NMVOC eq.	1.09E-04	4.23E-05	3.90E-05	1.90E-04
Abiotic depletion potential, minerals & metals <sup>1</sup>	kg Sb eq.	6.93E-08	1.46E-09	1.43E-10	7.09E-08
Abiotic depletion potential, fossil resources <sup>1</sup>	MJ	1.40E+00	2.03E-01	5.58E-02	1.66E+00
Water use <sup>1</sup>	m <sup>3</sup> world eq. deprived	1.09E-02	1.50E-03	-4.55E-04	1.19E-02
<b>Indicators describing resource use</b>		<b>Upstream</b>	<b>Core</b>	<b>Downstream</b>	<b>Total</b>
Use of renewable primary energy as energy carrier	MJ	4.65E-02	2.26E-02	6.71E-04	6.98E-02
Use of renewable primary energy resources used as raw materials	MJ	6.02E-13	9.48E-13	1.47E-14	1.56E-12
Total use of renewable primary energy	MJ	4.65E-02	2.26E-02	6.71E-04	6.98E-02
Use of non-renewable primary energy as energy carrier	MJ	1.42E+00	2.03E-01	5.61E-02	1.68E+00
Use of non-renewable primary energy resources used as raw materials	MJ	7.65E-06	2.48E-06	4.74E-14	1.01E-05
Total use of non-renewable primary energy resource	MJ	1.42E+00	2.03E-01	5.61E-02	1.68E+00
Secondary material	kg	2.05E-03	0	0	2.05E-03
Renewable secondary fuels	MJ	0	0	0	0
Non-renewable secondary fuels	MJ	0	0	0	0
Net use of fresh water	m <sup>3</sup>	2.75E-04	4.59E-05	-1.06E-05	3.10E-04



# Environmental Performance: XPAK4 Mailer

Company



Product



Content Declaration



Environmental Performance



Additional Information



Environmental information describing waste categories		Upstream	Core	Downstream	Total
Hazardous waste disposed	kg	2.36E-07	8.89E-11	2.38E-09	2.38E-07
Non-hazardous waste disposed	kg	7.36E-04	5.77E-04	1.51E-02	1.64E-02
Radioactive waste disposed	kg	2.04E-05	1.76E-05	1.37E-07	3.81E-05
Environmental information describing output flows		Upstream	Core	Downstream	Total
Components for reuse	kg	0	0	0	0
Material for recycling	kg	0	0	7.12E-03	7.12E-03
Materials for energy recovery	kg	0	0	0	0
Exported energy, electricity	MJ	0	0	0	0
Exported energy, thermal	MJ	0	0	0	0

Note: EN 15804 reference package based on EF 3.0

Disclaimer 1 - The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

# Content Declaration: XPAK5 Mailer

- Company 
- Product 
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## Product

### Materials / chemical substances



Polyethylene (PE) Film

**85%**

**kg** 0.0179  
per mailer



Coated Polyethylene (PE)

**2%**

**kg** 0.00034  
per mailer



Hot Melt Adhesive

**1%**

**kg** 0.00031  
per mailer



Post-consumer Recycled  
Polyethylene (PE)

**12%**

**kg** 0.00253  
per mailer

## Packaging

### Distribution/Consumer packaging:

Corrugated cardboard box weighing 0.00934 kg per mailer.

## Recycled material

### Provenience of recycled materials (pre-consumer or post-consumer) in the product:

Bubble contains 25% post consumer recycled (PCR) resin

# Environmental Performance: XPAK5 Mailer

Company 

Product 

Content Declaration 

Environmental Performance 

Additional Information 

Indicator name	Unit	Module			
<b>Core environmental impact indicators</b>		<b>Upstream</b>	<b>Core</b>	<b>Downstream</b>	<b>Total</b>
Climate Change - total	kg CO <sub>2</sub> eq.	6.36E-02	1.70E-02	1.68E-02	9.74E-02
Climate Change - fossil	kg CO <sub>2</sub> eq.	6.39E-02	1.68E-02	1.17E-02	9.24E-02
Climate Change - biogenic	kg CO <sub>2</sub> eq.	-2.92E-04	1.89E-04	5.06E-03	4.96E-03
Climate Change - LULUC	kg CO <sub>2</sub> eq.	2.08E-05	6.00E-07	1.21E-07	2.15E-05
Ozone depletion	kg CFC-11 eq.	3.31E-12	1.57E-13	1.22E-13	3.59E-12
Acidification	Mole of H <sup>+</sup> eq.	1.74E-04	5.28E-05	5.45E-05	2.81E-04
Eutrophication, freshwater	kg P eq.	1.20E-07	5.16E-08	1.18E-06	1.35E-06
Eutrophication, marine	kg N eq.	4.30E-05	1.84E-05	2.89E-05	9.03E-05
Eutrophication, terrestrial	mol N eq.	4.66E-04	1.97E-04	2.30E-04	8.93E-04
Photochemical ozone formation	kg NMVOC eq.	1.34E-04	5.23E-05	4.82E-05	2.35E-04
Abiotic depletion potential, minerals & metals <sup>1</sup>	kg Sb eq.	8.10E-08	1.88E-09	1.74E-10	8.31E-08
Abiotic depletion potential, fossil resources <sup>1</sup>	MJ	1.71E+00	2.58E-01	6.91E-02	2.04E+00
Water use <sup>1</sup>	m <sup>3</sup> world eq. deprived	1.32E-02	1.93E-03	-5.53E-04	1.46E-02
<b>Indicators describing resource use</b>		<b>Upstream</b>	<b>Core</b>	<b>Downstream</b>	<b>Total</b>
Use of renewable primary energy as energy carrier	MJ	5.59E-02	2.91E-02	8.16E-04	8.58E-02
Use of renewable primary energy resources used as raw materials	MJ	7.25E-13	1.22E-12	1.79E-14	1.96E-12
Total use of renewable primary energy	MJ	5.59E-02	2.91E-02	8.16E-04	8.58E-02
Use of non-renewable primary energy as energy carrier	MJ	1.73E+00	2.58E-01	6.94E-02	2.06E+00
Use of non-renewable primary energy resources used as raw materials	MJ	9.92E-06	3.19E-06	5.77E-14	1.31E-05
Total use of non-renewable primary energy resource	MJ	1.73E+00	2.58E-01	6.94E-02	2.06E+00
Secondary material	kg	2.53E-03	0	0	2.53E-03
Renewable secondary fuels	MJ	0	0	0	0
Non-renewable secondary fuels	MJ	0	0	0	0
Net use of fresh water	m <sup>3</sup>	3.34E-04	5.91E-05	-1.29E-05	3.80E-04

# Environmental Performance: XPAK5 Mailer

Company



Product



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Additional Information



Environmental information describing waste categories		Upstream	Core	Downstream	Total
Hazardous waste disposed	kg	2.86E-07	1.11E-10	2.90E-09	2.89E-07
Non-hazardous waste disposed	kg	8.57E-04	7.20E-04	1.83E-02	1.99E-02
Radioactive waste disposed	kg	2.47E-05	2.26E-05	1.67E-07	4.75E-05
Environmental information describing output flows		Upstream	Core	Downstream	Total
Components for reuse	kg	0	0	0	0
Material for recycling	kg	0	0	9.34E-03	9.34E-03
Materials for energy recovery	kg	0	0	0	0
Exported energy, electricity	MJ	0	0	0	0
Exported energy, thermal	MJ	0	0	0	0

Note: EN 15804 reference package based on EF 3.0

Disclaimer 1 - The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

# Content Declaration: XPAK6 Mailer

- Company 
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## Product

### Materials / chemical substances



Polyethylene (PE) Film

**85%**

**kg** 0.0254  
per mailer



Coated Polyethylene (PE)

**1%**

**kg** 0.0004  
per mailer



Hot Melt Adhesive

**1%**

**kg** 0.00036  
per mailer



Post-consumer Recycled  
Polyethylene (PE)

**12%**

**kg** 0.0036  
per mailer

## Packaging

### Distribution/Consumer packaging:

Corrugated cardboard box weighing 0.0136 kg per mailer.

## Recycled material

### Provenience of recycled materials (pre-consumer or post-consumer) in the product:

Bubble contains 25% post consumer recycled (PCR) resin

# Environmental Performance: XPAK6 Mailer

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Indicator name	Unit	Module			
<b>Core environmental impact indicators</b>		<b>Upstream</b>	<b>Core</b>	<b>Downstream</b>	<b>Total</b>
Climate Change - total	kg CO <sub>2</sub> eq.	8.93E-02	2.13E-02	2.37E-02	1.34E-01
Climate Change - fossil	kg CO <sub>2</sub> eq.	8.97E-02	2.11E-02	1.66E-02	1.27E-01
Climate Change - biogenic	kg CO <sub>2</sub> eq.	-4.12E-04	2.65E-04	7.16E-03	7.01E-03
Climate Change - LULUC	kg CO <sub>2</sub> eq.	2.89E-05	7.02E-07	1.71E-07	2.98E-05
Ozone depletion	kg CFC-11 eq.	4.68E-12	2.17E-13	1.72E-13	5.07E-12
Acidification	Mole of H+ eq.	2.45E-04	7.09E-05	7.70E-05	3.93E-04
Eutrophication, freshwater	kg P eq.	1.67E-07	7.11E-08	1.67E-06	1.91E-06
Eutrophication, marine	kg N eq.	6.03E-05	2.52E-05	4.09E-05	1.26E-04
Eutrophication, terrestrial	mol N eq.	6.55E-04	2.70E-04	3.26E-04	1.25E-03
Photochemical ozone formation	kg NMVOC eq.	1.87E-04	7.16E-05	6.81E-05	3.27E-04
Abiotic depletion potential, minerals & metals <sup>1</sup>	kg Sb eq.	1.04E-07	2.20E-09	2.46E-10	1.06E-07
Abiotic depletion potential, fossil resources <sup>1</sup>	MJ	2.41E+00	3.19E-01	9.76E-02	2.83E+00
Water use <sup>1</sup>	m <sup>3</sup> world eq. deprived	1.84E-02	2.25E-03	-7.82E-04	1.99E-02
<b>Indicators describing resource use</b>		<b>Upstream</b>	<b>Core</b>	<b>Downstream</b>	<b>Total</b>
Use of renewable primary energy as energy carrier	MJ	7.45E-02	3.40E-02	1.15E-03	1.10E-01
Use of renewable primary energy resources used as raw materials	MJ	9.50E-13	1.42E-12	2.54E-14	2.40E-12
Total use of renewable primary energy	MJ	7.45E-02	3.40E-02	1.15E-03	1.10E-01
Use of non-renewable primary energy as energy carrier	MJ	2.44E+00	3.19E-01	9.81E-02	2.86E+00
Use of non-renewable primary energy resources used as raw materials	MJ	1.38E-05	3.73E-06	8.16E-14	1.75E-05
Total use of non-renewable primary energy resource	MJ	2.44E+00	3.19E-01	9.81E-02	2.86E+00
Secondary material	kg	3.60E-03	0	0	3.60E-03
Renewable secondary fuels	MJ	0	0	0	0
Non-renewable secondary fuels	MJ	0	0	0	0
Net use of fresh water	m <sup>3</sup>	4.65E-04	6.89E-05	-1.82E-05	5.16E-04

# Environmental Performance: XPAK6 Mailer

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Environmental information describing waste categories		Upstream	Core	Downstream	Total
Hazardous waste disposed	kg	4.06E-07	1.55E-10	4.10E-09	4.10E-07
Non-hazardous waste disposed	kg	1.08E-03	1.00E-03	2.59E-02	2.80E-02
Radioactive waste disposed	kg	3.45E-05	2.64E-05	2.36E-07	6.11E-05
Environmental information describing output flows		Upstream	Core	Downstream	Total
Components for reuse	kg	0	0	0	0
Material for recycling	kg	0	0	0.0132	1.32E-02
Materials for energy recovery	kg	0	0	0	0
Exported energy, electricity	MJ	0	0	0	0
Exported energy, thermal	MJ	0	0	0	0

Note: EN 15804 reference package based on EF 3.0

Disclaimer 1 - The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

# References



Company

CEN (2019): EN 15804:2012+A2:2019/AC:2021, Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products.



Product

EPD International (2021) General Programme Instructions for the International EPD® System. Version 4.0, dated 2021-03-29. Retrieved from [www.environdec.com](http://www.environdec.com)

ISO (2006b), ISO 14040:2006, Environmental management – Life cycle assessment – Principles and framework.

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ISO (2006a), ISO 14025:2006, Environmental labels and declarations – Type III environmental declarations – Principles and procedures.

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Sphera (2022). GaBi LCA Software.



Environmental Performance



Additional Information



**Thanks!**

