Carbon Footprint Declaration

Diplast Corrugated Polypropylene Formwork

Declared unit: 1 kg Diplast Corrugated Polypropylene Formwork
Type: Cradle to gate with modules C and D (A1-A3+C+D)

Beaulieu International Group
Distriplast

Product Description

This declaration covers a group of beamform sheet products that differ in size and thickness. All types are translucent, made from the same formulation, and are produced at Distriplast's manufacturing site in Dunkerque, France. The declared unit is 1 kg of Beamform polypropylene formwork. It is designed to function as a formwork during building activities. Beamform combines mechanical strength, lightweight, and durability, making it cost-effective.

Description of the Organisation

Distriplast is a leading European manufacturer of high-performance solutions using polypropylene (PP) corrugated sheets. As an expert in extrusion and transformation, we offer customized conversions to meet your specific needs. From our HQ in Dunkirk, France, we develop solutions for diverse applications, including protection and packaging, building solutions, signage and displays.

Carbon Footprint Declaration

The results below express the Global Warming Potential (GWP) as kg CO2 eq. per kg Diplast Corrugated PP Formwork and include all emissions from raw material production, transport, manufacturing and end-of-life phases are included. No use phases are included. The declaration is based on a third-party-verified LCA (Life Cycle Assessment) and corresponding EPD (Environmental Product Declaration). An EPD is a standardized document providing quantified environmental information about a product's life cycle, based on a LCA. It follows the international standards ISO 14025 (Type III environmental declarations) and EN 15804 (for construction products).

RE2020 regulation: Since January 2022, France's building regulation (Réglementation Environmental 2020) requires carbon footprint assessments of new buildings, based on third party verified environmental data. EPDs, similarly to FDES, are accepted and sufficient for compliance.

Our offerings are fit for purpose, innovative, and sustainable in both their material and design. By focusing on circular and sustainable solutions, we underline our commitment to our sustainability strategy. For the full EPD document, please see https://www.environdec.com/library/epd25378.

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Total Global Warming Potential (kg CO2 eq./kg PP Corrugated Beamform)

Global Warming Potential	Product Stage
	A1-A3
Climate Change, fossil [kg CO2 eq.]	1.96
Climate Change, biogenic [kg CO2 eq.]	-0.0016
Climate Change, luluc [kg CO2 eq.]	0.0011
Total [kg CO2 eq.]	**1.96**

De-construction	Transport to waste processing	Waste processing	Disposal	Reuse-Recovery- Recycling-potential
C1	C2	C3	C4	D
0.00	0.01	0.00	0.03	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	**0.01**	**0.00**	**0.03**	**0.00**

Additional Background Information

Diplast Corrugated Polypropylene Formwork

Product specification

Product name	Type of product	Thickness (mm)	Colors	Length&width (mm)	Weight/sheet (kg)	Weight surface area (kg/m²)
Diplast EMF10	EMF10	10+0/-0.5	Translucent	3000x2400	12.96	1.80
Diplast EMF10	EMF10	10+0/-0.5	Translucent	1200x2400	5.18	1.80
Diplast EMF10	EMF10	10+0/-0.5	Translucent	1500x2400	6.48	1.80
Diplast SHD5	SHD5	5+0/-0.1	Translucent	2250x2000	5.4	1.20

Product composition and information on biogenic carbon content

Product components	Weight%	Post-consumer recycled material weight-% of product	Biogenic material weight-% of product
Virgin PP	75-85	0	0
Fillers	15-25	0	0
Total	**100%**	**0**	**0**

Indicator	Unit	Value
Biogenic carbon content in product	Kg C	0.00
Biogenic carbon content in packaging	Kg C	0.02

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO2.

Description of system boundaries

The LCA study covers the Cradle-to-Gate product stage (A1-A3), plus the End-of-Life stage (C1-C4) and the Benefits beyond the system boundary. The product stage includes raw material supply, transport and manufacturing. The end-of-life scenario's are 100% landfill disposal. The modules on Construction process stage (A4-A5) and the Use stage (B1-7) are excluded.

Diplast corrugated polypropylene formwork is embedded in the foundations of buildings and is not removed separately at end-of-life. As such, no active deconstruction or dismantling is performed. The sheet is demolished together with the rest of the building structure and disposed of as part of the general construction and demolition waste stream.

Diplast corrugated polypropylene formwork is landfilled, there are no benefits claimed.

Regional and temporal scope

Produced in Distriplast, site France in Dunkerque. Primary data from reference year 2024.

Limitations, assumptions and allocations

All flows with an influence higher than 1% of the total mass, energy or environmental impact are included. Some assumptions are made due to limitations in the available databases, limitations to the availability of primary data, or to simplify when impact is considered low.

For key contributing datasets (e.g., polypropylene granulate), the selection was based on both geographical and technological representativeness.

Impact assessment method

LCA for Experts software from Sphera Gmbh was used to model the LCA, using database content version 2025.1
EN 15804:2012+A2:2019/AC:2021 climate change indicators are reported.