

APET rolls

Caroclear BioPET Product Datasheet

Caroclear BioPET

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Description

Caroclear BioPET is part of CaroGreen range made of Amorphous Polyethylene Terephthalate (APET). It is a super clear polymer designed from Bio based material to be used for the packaging and food industry. It has an excellent clarity and good mechanical properties. Caroclear BioPET grade is designed to offer an environmentally and friendly solution to the packaging and food industry. It includes 30 % by weight of renewable sourcing material.

Applications

Containers, blisters for packaging of food and luxury.

Key Features

Certification/Approvals

The following approvals are available
ISO 9001:2015 and BRC IoP standards
Food: 10/2011/EC
RoHS: European Legislation 2015/863/CE.

Printing

It is not designed for printing. Please contact our sales department if printing is required.

Thermoforming

Good thermoforming ability, it can be processed on most equipment.

Conversion

Gluing can be done with either hot-melt or solvent-based glue.
Welding: Thermal, Ultrasonic.

Product Availability

Colour and Finish

Natural clear gloss finish.

Thickness

0.25 mm to 1.20 mm.

Roll Size Specifications

Gauge	Width	
	Minimum	Maximum
0,25 to 0,30 mm	540 mm	740 mm
0,31 to 1.20 mm	540 mm	740 mm

Physical properties

Properties	Unit	Standard	Method	Value
Density	g/cm ³	ISO 1183	-	1.32
Izod (Notched) Impact Strength	kJ/m ²	ISO 180	1U at 23°C	4.2
Tensile Strength	MPa	ISO 527	50 mm/min	30
Elongation at Break	%	ISO 527	50 mm/min	300
Modulus of Elasticity	MPa	ISO 527	50 mm/min	2000
Vicat Softening Point	°C	ISO 306	A120/oil	80
Water Vapour Transmission Rate	g/m ² /24 h	ASTM	F1249	7
Permeability CO ₂	cm ³ .m m/24.m ² .atm	ASTM	D1434	49
Permeability O ₂	cm ³ .m m/24.m ² .atm	ASTM	D1434	10

Data from 250 micron film.

Alternative Solutions

Available Options

Anti-block options:

AA; No anti-block,
EA; Masterbatch anti-blocking agent
AB; Silicone coated

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