

Technical data sheet (PETG - Pellets)

Co-polyester Polyethylene Terephthalate glycol

Description

Polyethylene terephthalate glycol (PETG) co-polyester is a high-strength, and highly translucent material.

It is suitable to produce food packaging in accordance with the criteria of Regulation (EU) No. 10/2011 and compatible with EN 1343 models.

Material Properties

Density	1.27 g/cm ³ ASTM D792
Chemical Name	Polyethylene glycol terephthalate

Mechanical Properties

Rockwell Hardness	110	ASTM D785
Tensile strength @ yield	50 MPa	ASTM D638
Tensile strength @ break	29 MPa	ASTM D638
Elongation @ yield	5%	ASTM D638
Elongation @ break	140%	ASTM D638
Flexural Strength	73 MPa	ASTM D790
Flexural Modulus	2110 MPa	ASTM D790
Izod Impact Strength Notched @ 23°C	100 J/m	ASTM D256

Thermal Properties

Heat Distorsion Temperature @ 0.455 MPa @ 1.820 MPa	70°C 64°C	ASTM D648
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Drying

The materials aren't pre-dry.

Drying conditions:

Temperature	60°C – 65°C
Time	Min. 4 hours – Max. 10 hours
Air Flow	>0.065 m ³ /min per kg/h
Dew point	< -30°C; -40°C is better for good drying
Residual Moisture Contents	< 0.05% (500ppm)

Storage & Handling

During storage, the product may acquire humidity if exposed to fresh air. The humidity it absorbs depends on the temperature, humidity, and time of exposure. Therefore, it should be stored in its packaging in a cool place and kept at temperatures below 50°C. No special restrictions on storage with other products.

Security

This product is not classified as dangerous according to the CE Regulation No 1272/2008, and therefore is not subject to special transport regulations. This product does not melt at room temperature.

Suitable for food contact	Yes (EU) 10/2011
Suitable for Toys	Yes
Suitable for packaging	Yes

****Disclaimer:** The product and technical information provided in this datasheet is correct to the best of our knowledge. The information given is provided as a guidance for good use, handling and processing and is not to be considered as a quality specification. The information only relates to the specific product and the material properties.