

PolyOne Edgetek® PS-1000 Polybutylene Terephthalate (PBT) (discontinued **)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Description/Features:UL 94 HBPolyOne First ChoiceInformation provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-PS-1000-Polybutylene-Terephthalate-PBT-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Water Absorption	0.080 %	0.080 %	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.020 cm/cm	0.020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	55.2 MPa	8000 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	2.41 GPa	350 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790
Izod Impact, Notched	0.427 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	0.800 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	81.0 µm/m-°C @Temperature 20.0 °C	45.0 µin/in-°F @Temperature 68.0 °F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	67.2 °C	153 °F	Annealed, 0.125 in bars; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	232 - 249 °C	450 - 480 °F	Molding
Mold Temperature	37.8 - 65.6 °C	100 - 150 °F	

Processing Properties	Metric	English	Comments
Drying Temperature	104 °C	220 °F	
Dry Time	2 hour	2 hour	

Descriptive Properties	Value	Comments
Product Form	Pellets	

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