

PolyOne Edgetek® PS-20GF/000 NATURAL Polybutylene Terephthalate (PBT)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-PS-20GF000-NATURAL-Polybutylene-Terephthalate-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Thickness 3.18 mm	0.0030 - 0.0050 in/in @Thickness 0.125 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.013 - 0.015 cm/cm @Thickness 3.18 mm	0.013 - 0.015 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	96.5 MPa	14000 psi	5.1 mm/min; ASTM D638
Elongation at Break	3.0 - 5.0 %	3.0 - 5.0 %	ASTM D638
Tensile Modulus	6.76 GPa	980 ksi	5.1 mm/min; ASTM D638
Flexural Strength	165 MPa	23900 psi	1.3 mm/min; ASTM D790
Flexural Modulus	6.00 GPa	870 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	219 °C	426 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	182 °C	360 °F	Unannealed; ASTM D648

Descriptive Properties	Value	Comments
Agency Ratings	FDA Unspecified Rating	
Features	Good Chemical Resistance	
	High Heat Resistance	
	Semi Crystalline	

Filler / Reinforcement Descriptive Properties	Glass Fiber Reinforcement, 20% Filler by Weight Value	Comments
Forms	Pellets	
Generic Material	PBT	
Generic Name	Polybutylene Terephthalate (PBT)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Appliance Components	
	Appliances	
	Automotive Applications	
	Consumer Applications	
	Housings	
	Industrial Applications	
	Structural Parts	

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