

PolyOne Edgetek® X PS-154200101 WHITE Polybutylene Terephthalate (PBT)

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

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-X-PS-154200101-WHITE-Polybutylene-Terephthalate-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
	@Thickness 3.18 mm	@Thickness 0.125 in	
Linear Mold Shrinkage, Transverse	0.013 - 0.022 cm/cm	0.013 - 0.022 in/in	ASTM D955
	@Thickness 3.18 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	82.7 MPa	12000 psi	5.1 mm/min; ASTM D638
Elongation at Break	3.0 - 5.0 %	3.0 - 5.0 %	ASTM D638
Tensile Modulus	6.89 GPa	999 ksi	5.1 mm/min; ASTM D638
Flexural Strength	134 MPa	19400 psi	1.3 mm/min; ASTM D790
Flexural Modulus	6.62 GPa	960 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	245 °C	473 °F	Unannealed; ASTM D648

Descriptive Properties	Value	Comments
Features	Good Chemical Resistance	
	High Heat Resistance	
	Impact Modified	
	Semi Crystalline	
Filler / Reinforcement	Glass Fiber Reinforcement, 30% Filler by Weight	
Forms	Pellets	

Descriptive Properties	Value	Comments
Generic Material	PBT	
Generic Name	Polybutylene Terephthalate (PBT)	
Regional Availability	North America	
	South America	
Uses	Appliance Components	
	Appliances	
	Automotive Applications	
	Consumer Applications	
	Housings	
	Industrial Applications	
	Sporting Goods	
	Structural Parts	

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