

PolyOne Gravi-Tech™ GRV-PS-027-BA-WHT 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-Gravi-Tech-GRV-PS-027-BA-WHT-Polybutylene-Terephthalate-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.69 g/cc	2.69 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.011 - 0.017 cm/cm	0.011 - 0.017 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	38.6 MPa	5600 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	1.0 %	1.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	6.89 GPa	999 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	68.9 MPa	9990 psi	ASTM D790
Flexural Modulus	6.89 GPa	999 ksi	ASTM D790
Izod Impact, Notched	0.270 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	0.506 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded, Method A; ASTM D648
Izod Impact, Unnotched	2.40 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	4.50 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	249 - 266 °C	480 - 511 °F	
Mold Temperature	82.2 - 121 °C	180 - 250 °F	
Drying Temperature	107 °C	225 °F	

Descriptive Properties	Value	Comments
Appearance	White	
Features	High Specific Gravity	
	Non-Toxic	

Forms Descriptive Properties	Pellets Value	Comments
Generic Material	PBT	
Generic Name	Polybutylene Terephthalate (PBT)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Industrial Applications	
	Medical/Healthcare Applications	
	Sporting Goods	

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