

Polymer Resources TP-IM-G15 Polybutylene Terephthalate, 15% Glass Reinforced, Impact Modified

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

Material Notes:

Polybutylene Terephthalate, 15% Glass Reinforced, Impact Modified
 Process: Injection Molding
 Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples.
 Information provided by Polymer Resources Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Resources-TP-IM-G15-Polybutylene-Terephthalate-15-Glass-Reinforced-Impact-Modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 - 0.010 cm/cm	0.0060 - 0.010 in/in	ASTM D955
Melt Flow	8.0 - 16 g/10 min @Load 2.16 kg, Temperature 250 °C	8.0 - 16 g/10 min @Load 4.76 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	82.7 MPa	12000 psi	ASTM D638
Tensile Strength, Yield	84.8 MPa	12300 psi	ASTM D638
Flexural Strength	128 MPa	18500 psi	ASTM D790
Flexural Modulus	4.21 GPa	610 ksi	ASTM D790
Izod Impact, Notched	0.961 J/cm @Temperature 22.8 °C	1.80 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	199 °C	390 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	182 °C	360 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0626 in	
	HB @Thickness 3.17 mm	HB @Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	238 - 254 °C	460 - 490 °F	
Middle Barrel Temperature	243 - 260 °C	470 - 500 °F	
Front Barrel Temperature	249 - 266 °C	480 - 510 °F	
Melt Temperature	232 - 260 °C	450 - 500 °F	
Mold Temperature	71.1 - 87.8 °C	160 - 190 °F	
Drying Temperature	116 - 121 °C	240 - 250 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0005	

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