

## Polymer Resources TP-HG15 Polybutylene Terephthalate, 15% Glass Reinforced Alloy

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

### Material Notes:

Polybutylene Terephthalate, 15% Glass Reinforced Alloy 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-HG15-Polybutylene-Terephthalate-15-Glass-Reinforced-Alloy.php](http://www.lookpolymers.com/polymer_Polymer-Resources-TP-HG15-Polybutylene-Terephthalate-15-Glass-Reinforced-Alloy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 - 0.010 cm/cm	0.0060 - 0.010 in/in	ASTM D955
Melt Flow	10 - 20 g/10 min @Load 2.16 kg, Temperature 250 °C	10 - 20 g/10 min @Load 4.76 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	89.6 MPa	13000 psi	ASTM D638
Tensile Strength, Yield	89.6 MPa	13000 psi	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	4.45 GPa	645 ksi	ASTM D790
Izod Impact, Notched	0.267 J/cm @Temperature 22.8 °C	0.500 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	207 °C	405 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	157 °C	315 °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
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Processing Properties	Metric	English	Comments
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	

## Contact Songhan Plastic Technology Co.,Ltd.

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