

Polymer Resources TP-GFMF1 Polybutylene Terephthalate, 40% Glass/Mineral Reinforced, Flame Retardant

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Glass + Mineral Filled , Polybutylene Terephthalate (PBT), Glass Fiber Filled, Flame Retardant

Material Notes:

Polybutylene Terephthalate, 40% Glass/Mineral Reinforced, Flame Retardant 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-GFMF1-Polybutylene-Terephthalate-40-GlassMineral-Reinforced-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 g/cc	1.75 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Flow	2.0 - 8.0 g/10 min @Load 2.16 kg, Temperature 250 °C	2.0 - 8.0 g/10 min @Load 4.76 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	96.5 MPa	14000 psi	ASTM D638
Tensile Strength, Yield	96.5 MPa	14000 psi	ASTM D638
Flexural Strength	159 MPa	23000 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Temperature 22.8 °C	1.00 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	204 °C	400 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	188 °C	370 °F	ASTM D648
UL RTI, Electrical	75.0 °C @Thickness 1.50 mm	167 °F @Thickness 0.0591 in	UL 746
UL RTI, Mechanical with Impact	75.0 °C @Thickness 1.50 mm	167 °F @Thickness 0.0591 in	UL 746
	75.0 °C	167 °F	

UL RTI Mechanical without Impact Thermal Properties	Metric @Thickness 1.50 mm	English @Thickness 0.0591 in	UL 746 Comments
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	243 - 254 °C	470 - 490 °F	
Middle Barrel Temperature	249 - 260 °C	480 - 500 °F	
Front Barrel Temperature	254 - 266 °C	490 - 510 °F	
Melt Temperature	249 - 277 °C	480 - 530 °F	
Mold Temperature	71.1 - 93.3 °C	160 - 200 °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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