

Polymer Resources TP-IGFR-G30 Polybutylene Terephthalate, 30% Glass Reinforced, Flame Retardant, Reduced Warpage

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled , Polybutylene Terephthalate (PBT), Glass Fiber Filled, Flame Retardant

Material Notes:

Polybutylene Terephthalate, 30% Glass Reinforced, Flame Retardant, Reduced Warpage
 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-IGFR-G30-Polybutylene-Terephthalate-30-Glass-Reinforced-Flame-Retardant-Reduced-Warpage.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Flow	5.0 - 15 g/10 min @Load 2.16 kg, Temperature 250 °C	5.0 - 15 g/10 min @Load 4.76 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	107 MPa	15500 psi	ASTM D638
Tensile Strength, Yield	107 MPa	15500 psi	ASTM D638
Flexural Strength	172 MPa	25000 psi	ASTM D790
Flexural Modulus	6.21 GPa	900 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @Temperature 22.8 °C	1.50 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)	157 °C	315 °F	ASTM D648
UL RTI, Electrical	75.0 °C @Thickness 1.50 mm	167 °F @Thickness 0.0591 in	UL 746
	75.0 °C @Thickness 3.00 mm	167 °F @Thickness 0.118 in	UL 746

Thermal Properties	Metric	English	Comments
UL RTI, Mechanical with Impact	@Thickness 1.50 mm	@Thickness 0.0591 in	UL 746
	75.0 °C	167 °F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	75.0 °C	167 °F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	75.0 °C	167 °F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
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
Comparative Tracking Index	175 - 250 V	175 - 250 V	UL 746
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 sec	>= 120 sec	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Amp Arc Ignition, HAI	30 - 60 arcs	30 - 60 arcs	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 arcs	>= 120 arcs	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 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	

Processing Properties	Metric 4.00 hour	English 00 hour	Comments
-----------------------	------------------	-----------------	----------

Descriptive Properties	Value	Comments
------------------------	-------	----------

Vent	0.0005	
------	--------	--

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China