

Polymer Resources TPSF-FRG30 Polybutylene Terephthalate, Structural Foam, 30% Glass Reinforced, Flame Retardant

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, Structural Foam, 30% Glass Reinforced, Flame Retardant
 Process: Foam 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-TPSF-FRG30-Polybutylene-Terephthalate-Structural-Foam-30-Glass-Reinforced-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.62 g/cc	1.62 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
Melt Flow	4.0 - 12 g/10 min @Load 2.16 kg, Temperature 250 °C	4.0 - 12 g/10 min @Load 4.76 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	114 MPa	16500 psi	ASTM D638
Tensile Strength, Yield	114 MPa	16500 psi	ASTM D638
Flexural Strength	176 MPa	25500 psi	ASTM D790
Flexural Modulus	7.24 GPa	1050 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)	210 °C	410 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	202 °C	395 °F	ASTM D648
UL RTI, Electrical	75.0 °C @Thickness 6.60 mm	167 °F @Thickness 0.260 in	UL 746
UL RTI, Mechanical with Impact	75.0 °C @Thickness 6.60 mm	167 °F @Thickness 0.260 in	UL 746

Thermal Properties	Metric	English	Comments
UL RTI, Mechanical without impact	@Thickness 6.60 mm	@Thickness 0.260 in	UL 746
Flammability, UL94	V-0	V-0	
	@Thickness 1.59 mm	@Thickness 0.0626 in	
	V-0	V-0	
	@Thickness 3.17 mm	@Thickness 0.125 in	

Electrical Properties	Metric	English	Comments
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746
	@Thickness 6.60 mm	@Thickness 0.260 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	

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