

Plastcom SLOVASTER® B1 GF 15 FRX 5 PBT reinforced with 15% glass fibre, with flame retardant

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

Material Notes:

Features: PBT with the content of 15 % chemically bound glass fibre and with the halogen free flame retardant. Anisotropy of shrinkage enables the injection moulding of round, cylindrical or other hole products. Application in engineering, electrical and automotive industry. High mechanical properties also in conditioned state. Delivered in natural mode and in the full RAL colour scale. Packaging, transport, stocking: The product is packed in hermetically closed thick-walled 25 kg PE bags, on a 1.000 kg palette coated in a stretch foil, in big bags with a thick PE foil fixed on a 1.000 kg palette, in paper octabins with a thick PE foil fixed on a 1.000 kg palette or in other packaging according to customer requirements. The transport is provided in closed-up vehicles where the material is protected against movement and mechanical damage. The product requires stocking in closed-up, dry places protected against sun and thermal radiation. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-SLOVASTER-B1-GF-15-FRX-5-PBT-reinforced-with-15-glass-fibre-with-flame-retardant.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 250 °C	10 g/10 min @Load 4.76 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	
Elongation at Break	3.0 %	3.0 %	
Tensile Modulus	5.20 GPa	754 ksi	
Flexural Strength	90.0 MPa	13100 psi	
Flexural Modulus	3.60 GPa	522 ksi	
Charpy Impact Unnotched	3.50 J/cm ² @Temperature 23.0 °C	16.7 ft-lb/in ² @Temperature 73.4 °F	
	3.50 J/cm ² @Temperature -20.0 °C	16.7 ft-lb/in ² @Temperature -4.00 °F	

Mechanical Properties Charpy Impact, Notched	Metric 0.180 J/cm ²	English 0.857 ft-lb/in ²	Comments
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.250 J/cm ²	1.19 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	200 - 220 °C	392 - 428 °F	
Deflection Temperature at 1.8 MPa (264 psi)	170 °C	338 °F	
Vicat Softening Point	205 °C	401 °F	
Flammability Test	5.0	5.0	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Glow Wire Test	960 °C	1760 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	
Dielectric Strength	30.0 kV/mm	762 kV/in	
Comparative Tracking Index	600 V	600 V	

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	50.0 - 90.0 °C	122 - 194 °F	
Drying Temperature	120 °C	248 °F	
Dry Time	2 hour	2 hour	
Moisture Content	0.050 %	0.050 %	
Injection Pressure	60.0 - 100 MPa	8700 - 14500 psi	

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