

Plastcom SLOVASTER® B GF 20 FRK 3 Polybutylene Terephthalate, 20% Chemically Coupled Glass Fiber, Red Phosphorus Flame Retardant

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

Material Notes:

Features PBT with the content of 20% chemically coupled glass fiber and flame retardant based on red phosphorus. Anisotropy of shrinkage enables 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 and black color. Application: Injection Moulding Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-SLOVASTER-B-GF-20-FRK-3-Polybutylene-Terephthalate-20-Chemically-Coupled-Glass-Fiber-Red-Phosphorus-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0049 cm/cm	0.0049 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0088 cm/cm	0.0088 in/in	STN 64 0808
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 230 °C	10 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	STN EN ISO 527-2
Elongation at Break	2.0 %	2.0 %	STN EN ISO 527-2
Tensile Modulus	7.10 GPa	1030 ksi	STN EN ISO 527-2
Flexural Strength	175 MPa	25400 psi	STN EN ISO 178
Flexural Modulus	7.60 GPa	1100 ksi	STN EN ISO 178
Charpy Impact Unnotched	5.00 J/cm ² @Temperature 23.0 °C	23.8 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
	5.50 J/cm ² @Temperature -20.0 °C	26.2 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
Charpy Impact, Notched	0.700 J/cm ² @Temperature -20.0 °C	3.33 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	0.700 J/cm ²	3.33 ft-lb/in ²	STN EN ISO 179

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	200 - 220 °C	392 - 428 °F	DSC; STN EN ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	STN EN ISO 75/A
Vicat Softening Point	210 °C	410 °F	B; STN EN ISO 306
Flammability, UL94	V-0	V-0	
Glow Wire Test	960 °C	1760 °F	STN IEC 60695-2-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	STN IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	STN IEC 60093
Dielectric Strength	32.0 kV/mm	813 kV/in	STN IEC 60243
Comparative Tracking Index	200 V	200 V	STN 34 6468

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 280 °C	482 - 536 °F	
Mold Temperature	50.0 - 90.0 °C	122 - 194 °F	
Drying Temperature	120 °C	248 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.050 %	0.050 %	STN EN ISO 960
Injection Pressure	60.0 - 100 MPa	8700 - 14500 psi	

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