

Plastcom SLOVASTER® B GF 10 Polybutylene Terephthalate, 10% Glass Fiber

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 10% Glass Fiber Filled

Material Notes:

FeaturesPBT for injection moulding, chemically reinforced with 10% glass fiber. Characterized by excellent properties also at low temperatures like tensile and flexural modulus, tensile strength, and toughness. Does not absorb water, which means that identical properties are maintained also in wet environments. Melt is characterized by very good rheology, which enables the manufacturing of extremely multiple products with complicated downflow-path. Anisotropy of shrinkage is much better in comparison with PA, which influences the manufacturing of round, cylindrical or other hole products. Application in the automotive, electrical and engineering industry - connectors of cable harnesses, car-door locks, connection links, grips etc. Delivered in natural and in the full RAL color scale.Application: Injection MouldingInformation Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-SLOVASTER-B-GF-10-Polybutylene-Terephthalate-10-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0099 cm/cm	0.0099 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0146 cm/cm	0.0146 in/in	STN 64 0808
Melt Flow	25 g/10 min @Load 2.16 kg, Temperature 230 °C	25 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	STN EN ISO 527-2
Elongation at Break	4.0 %	4.0 %	STN EN ISO 527-2
Tensile Modulus	4.80 GPa	696 ksi	STN EN ISO 527-2
Flexural Strength	130 MPa	18900 psi	STN EN ISO 178
Flexural Modulus	4.20 GPa	609 ksi	STN EN ISO 178
Charpy Impact Unnotched	2.50 J/cm ² @Temperature 23.0 °C	11.9 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
	2.50 J/cm ² @Temperature -20.0 °C	11.9 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
Charpy Impact, Notched	0.400 J/cm ² @Temperature -20.0 °C	1.90 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179

Mechanical Properties	0.500 J/cm² Metric	2.38 ft-lb/in² English	Comments 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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)	180 °C	356 °F	STN EN ISO 75/A
Vicat Softening Point	210 °C	410 °F	B; STN EN ISO 306
Flammability, UL94	HB	HB	
Glow Wire Test	750 °C	1380 °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	28.0 kV/mm	711 kV/in	STN IEC 60243
Comparative Tracking Index	350 V	350 V	STN 34 6468

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	50.0 - 80.0 °C	122 - 176 °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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