

Plastcom SLOVASTER® B GF 15 Polybutylene Terephthalate, 15% Glass Fiber

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

Material Notes:

FeaturesPBT for injection moulding, chemically reinforced with 15% 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-15-Polybutylene-Terephthalate-15-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0089 cm/cm	0.0089 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0135 cm/cm	0.0135 in/in	STN 64 0808
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 230 °C	15 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	STN EN ISO 527-2
Elongation at Break	3.0 %	3.0 %	STN EN ISO 527-2
Tensile Modulus	5.60 GPa	812 ksi	STN EN ISO 527-2
Flexural Strength	160 MPa	23200 psi	STN EN ISO 178
Flexural Modulus	5.20 GPa	754 ksi	STN EN ISO 178
Charpy Impact Unnotched	3.30 J/cm ² @Temperature -20.0 °C	15.7 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	3.50 J/cm ² @Temperature 23.0 °C	16.7 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.550 J/cm ² @Temperature 23.0 °C	2.62 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Mechanical Properties	0.550 J/cm² Metric	2.62 ft-lb/in² English	Comments 179
	@Temperature -20.0 °C	@Temperature -4.00 °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)	200 °C	392 °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	33.0 kV/mm	838 kV/in	STN IEC 60243
Comparative Tracking Index	350 V	350 V	STN 34 6468

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 280 °C	482 - 536 °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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