

Plastcom SLOVASTER® B GF 20 Polybutylene Terephthalate, 20% Glass Fiber

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

Material Notes:

Features PBT for injection moulding, chemically reinforced with 20% 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 Moulding Information Provided by Plastcom spol. s r.o.

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http://www.lookpolymers.com/polymer_Plastcom-SLOVASTER-B-GF-20-Polybutylene-Terephthalate-20-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0085 cm/cm	0.0085 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0127 cm/cm	0.0127 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	125 MPa	18100 psi	STN EN ISO 527-2
Elongation at Break	3.0 %	3.0 %	STN EN ISO 527-2
Tensile Modulus	7.20 GPa	1040 ksi	STN EN ISO 527-2
Flexural Strength	170 MPa	24700 psi	STN EN ISO 178
Flexural Modulus	5.40 GPa	783 ksi	STN EN ISO 178
Charpy Impact Unnotched	4.50 J/cm ² @Temperature -20.0 °C	21.4 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	5.00 J/cm ² @Temperature 23.0 °C	23.8 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.700 J/cm ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Mechanical Properties	0.700 J/cm ² Metric	3.33 ft-lb/in ² 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	31.0 kV/mm	787 kV/in	STN IEC 60243
Comparative Tracking Index	425 V	425 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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