

Plastcom SLOVASTER® B GB 40 PBT reinforced with glass beads

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Glass Bead Filled

Material Notes:

PBT for injection molding, reinforced with 40% glass beads. Characterized by very good properties also at low temperature. Melt is characterized by very good rheology, which enables manufacturing of multiple products with complicated flow. Application in the automotive, electrical and engineering industry - connectors of cable harnesses, car-door locks, connection links, grips etc. Delivered in natural mode and in the full RAL color scale. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-SLOVASTER-B-GB-40-PBT-reinforced-with-glass-beads.php

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/in ³	STN EN ISO 1183-1
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	STN EN ISO 294-4
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 250 °C	15 g/10 min @Load 4.76 lb, Temperature 482 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	STN EN ISO 527-2
Elongation at Break	2.5 %	2.5 %	STN EN ISO 527-2
Tensile Modulus	6.30 GPa	914 ksi	STN EN ISO 527-2
Flexural Strength	110 MPa	16000 psi	STN EN ISO 178
Flexural Modulus	5.10 GPa	740 ksi	STN EN ISO 178
Charpy Impact Unnotched	4.20 J/cm ² @Temperature -20.0 °C	20.0 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	4.50 J/cm ² @Temperature 23.0 °C	21.4 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.200 J/cm ² @Temperature -20.0 °C	0.952 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	0.300 J/cm ² @Temperature 23.0 °C	1.43 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	228 °C	442 °F	STN EN 11357-1
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	STN EN ISO 75-2 (A)
Vicat Softening Point	245 °C	473 °F	STN EN ISO 306
Flammability, UL94	HB	HB	
Glow Wire Test	650 °C @Thickness 3.00 mm	1200 °F @Thickness 0.118 in	STN EN 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+18 ohm-cm	1.00e+18 ohm-cm	STN 34 6460
Surface Resistance	3.00e+16 ohm	3.00e+16 ohm	STN 34 6460
Dielectric Strength	16.0 kV/mm	406 kV/in	STN EN 60243-2

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 270 °C	446 - 518 °F	
Mold Temperature	70.0 - 90.0 °C	158 - 194 °F	
Drying Temperature	100 °C @Time 7200 sec	212 °F @Time 2.00 hour	
Moisture Content	0.10 %	0.10 %	STN EN ISO 3344
Injection Pressure	50.0 - 80.0 MPa	7250 - 11600 psi	

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