

Plastcom SLOVASTER® B1 GF 15 FRL 4 PBT reinforced with glass fibers, flame retarded

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

Material Notes:

PBT reinforced with 15 % glass fiber, flame retarded with the halogen flame retardant. Anisotropy of shrinkage enables the injection molding of round, cylindrical or other hole products. Application in engineering, electrical and automotive industry. High mechanical properties also in conditioned status. 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-B1-GF-15-FRL-4-PBT-reinforced-with-glass-fibers-flame-retarded.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	STN EN ISO 1183-1
Filler Content	15 %	15 %	
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 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	90.0 MPa	13100 psi	STN EN ISO 527-2
Elongation at Break	5.0 %	5.0 %	STN EN ISO 527-2
Tensile Modulus	5.60 GPa	812 ksi	STN EN ISO 527-2
Flexural Strength	185 MPa	26800 psi	STN EN ISO 178
Flexural Modulus	5.30 GPa	769 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	0.600 J/cm ² @Temperature 23.0 °C	2.86 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
	0.600 J/cm ²	2.86 ft-lb/in ²	STN EN ISO 179

Mechanical Properties	@Temperature -20.0 °C Metric	@Temperature -4.00 °F English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	250 °C	482 °F	STN EN 11357-1
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	STN EN ISO 75-2 (A)
Vicat Softening Point	200 °C	392 °F	STN EN ISO 306
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
Glow Wire Test	960 °C @Thickness 3.00 mm	1760 °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	1.00e+14 ohm	1.00e+14 ohm	STN 34 6460
Dielectric Strength	22.0 kV/mm	559 kV/in	STN EN 60243-2
Comparative Tracking Index	450 V	450 V	STN EN 60112

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 260 °C	464 - 500 °F	
Mold Temperature	70.0 - 80.0 °C	158 - 176 °F	
Drying Temperature	80.0 °C @Time 14400 sec	176 °F @Time 4.00 hour	
Moisture Content	0.10 %	0.10 %	STN EN ISO 3344
Injection Pressure	70.0 - 90.0 MPa	10200 - 13100 psi	

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