

Plastcom SLOVAMID® 6 GF 25 FRC 4 PA6 reinforced with glass fiber, flame retarded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Fiber Filled, Flame Retardant

Material Notes:

PA 6 for injection molding, reinforced with 25 % glass fiber, flame retarded with halogen free flame retardant. Main features: flammability according to UL 94 3 at 1,6mm, glow wire at 960°C. Application for the electrical industry: protectors, coil forms, covers, terminals. Delivered in natural color or 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-SLOVAMID-6-GF-25-FRC-4-PA6-reinforced-with-glass-fiber-flame-retarded.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	STN EN ISO 1183-1
Filler Content	25 %	25 %	
Linear Mold Shrinkage	0.0075 cm/cm	0.0075 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.0112 cm/cm	0.0112 in/in	STN EN ISO 294-4
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	135 MPa	19600 psi	STN EN ISO 527-2
Elongation at Break	2.0 %	2.0 %	STN EN ISO 527-2
Tensile Modulus	12.0 GPa	1740 ksi	STN EN ISO 527-2
Flexural Strength	205 MPa	29700 psi	STN EN ISO 178
Flexural Modulus	10.0 GPa	1450 ksi	STN EN ISO 178
Charpy Impact Unnotched	4.40 J/cm ² @Temperature -20.0 °C	20.9 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	4.80 J/cm ² @Temperature 23.0 °C	22.8 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.750 J/cm ² @Temperature 23.0 °C	3.57 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
	0.750 J/cm ² @Temperature -20.0 °C	3.57 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °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	210 °C	410 °F	STN EN ISO 306
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @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+15 ohm-cm	1.00e+15 ohm-cm	STN 34 6460
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	STN 34 6460
Dielectric Strength	60.0 kV/mm	1520 kV/in	STN EN 60243-2
Comparative Tracking Index	600 V	600 V	STN EN 60112

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	50.0 - 70.0 °C	122 - 158 °F	
Drying Temperature	80.0 °C @Time 14400 sec	176 °F @Time 4.00 hour	
Moisture Content	0.15 %	0.15 %	STN EN ISO 3344
Injection Pressure	70.0 - 100 MPa	10200 - 14500 psi	

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