

Plastcom SLOVAMID® 6 GF 20 FRA 5 PA6 reinforced with glass fiber, flame retarded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled , Nylon 6, Glass Fiber Filled, Flame Retardant

Material Notes:

PA 6 for injection molding, reinforced with 20% glass fiber, flame retarded with halogen flame retardant. Main features: flammability in accordance with UL 94 5 at 1.6 mm, glow wire at 960°C. Application for the electrical industry: protectors, coil forms, covers, terminals.

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-SLOVAMID-6-GF-20-FRA-5-PA6-reinforced-with-glass-fiber-flame-retarded.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	STN EN ISO 1183-1
Filler Content	20 %	20 %	
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	5.0 g/10 min @Load 2.16 kg, Temperature 230 °C	5.0 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 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	145 MPa	21000 psi	STN EN ISO 178
Flexural Modulus	5.90 GPa	856 ksi	STN EN ISO 178
Charpy Impact Unnotched	5.00 J/cm ² @Temperature -20.0 °C	23.8 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	5.50 J/cm ² @Temperature 23.0 °C	26.2 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.500 J/cm ² @Temperature -20.0 °C	2.38 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	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	Metric	English	Comments
Melting Point	220 °C	428 °F	STN EN 11357-1
Deflection Temperature at 1.8 MPa (264 psi)	225 °C	437 °F	STN EN ISO 75-2 (A)
Vicat Softening Point	230 °C	446 °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+14 ohm-cm	1.00e+14 ohm-cm	STN 34 6460
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	STN 34 6460
Dielectric Strength	25.0 kV/mm	635 kV/in	STN EN 60243-2
Comparative Tracking Index	300 V	300 V	STN EN 60112

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 270 °C	464 - 518 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °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 - 120 MPa	10200 - 17400 psi	

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