

Plastcom SLOVAMID® 6 T 30 FRC 4 TS PA6 flame retarded, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Mineral Filled , Nylon 6 , Heat Stabilized

Material Notes:

PA 6 for injection molding, reinforced with 30% mineral filler, flame retarded with nonhalogen flame retardant, heat stabilized. Main features: flammability in accordance with UL 94 3 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-T-30-FRC-4-TS-PA6-flame-retarded-heat-stabilized.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	STN EN ISO 1183-1
Filler Content	30 %	30 %	
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	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	95.0 MPa	13800 psi	STN EN ISO 527-2
Elongation at Break	3.0 %	3.0 %	STN EN ISO 527-2
Tensile Modulus	6.70 GPa	972 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	3.00 J/cm ² @Temperature -20.0 °C	14.3 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	3.50 J/cm ² @Temperature 23.0 °C	16.7 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.150 J/cm ² @Temperature -20.0 °C	0.714 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	0.500 J/cm ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	STN EN 11357-1
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	STN EN ISO 75-2 (A)
Vicat Softening Point	255 °C	491 °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+14 ohm	1.00e+14 ohm	STN 34 6460
Dielectric Strength	40.0 kV/mm	1020 kV/in	STN EN 60243-2
Comparative Tracking Index	600 V	600 V	STN EN 60112

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 250 °C	446 - 482 °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	50.0 - 90.0 MPa	7250 - 13100 psi	

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