

Plastcom SLOVAMID® 6/66 FRC 3 TS PA6/66 flame retarded, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66

Material Notes:

PA 6 + PA 66 alloy for injection molding, reinforced with 30 % glass fiber, flame retarded with non halogen flame retardant, heat stabilized.

Main features: flammability in accordance with UL 94 5 at 0,8 mm, glow wire at 960°C. Application for the electrical industry: protectors, coil forms, covers, terminals. Delivered in natural 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-666-FRC-3-TS-PA666-flame-retarded-heat-stabilized.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	STN EN ISO 1183-1
Filler Content	30 %	30 %	Glass Fiber
Linear Mold Shrinkage	0.0075 cm/cm	0.0075 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.0087 cm/cm	0.0087 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	80.0 MPa	11600 psi	STN EN ISO 527-2
Elongation at Break	6.0 %	6.0 %	STN EN ISO 527-2
Tensile Modulus	3.65 GPa	529 ksi	STN EN ISO 527-2
Flexural Strength	125 MPa	18100 psi	STN EN ISO 178
Flexural Modulus	3.30 GPa	479 ksi	STN EN ISO 178
Charpy Impact Unnotched	8.00 J/cm ² @Temperature -20.0 °C	38.1 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	8.50 J/cm ² @Temperature 23.0 °C	40.4 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.300 J/cm ² @Temperature -20.0 °C	1.43 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	0.400 J/cm ² @Temperature 23.0 °C	1.90 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	262 °C	504 °F	STN EN 11357-1
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	STN EN ISO 75-2 (A)
Vicat Softening Point	215 °C	419 °F	STN EN ISO 306
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 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+13 ohm-cm	1.00e+13 ohm-cm	STN 34 6460
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	STN 34 6460
Dielectric Strength	25.0 kV/mm	635 kV/in	STN EN 60243-2
Comparative Tracking Index	600 V	600 V	STN EN 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 280 °C	500 - 536 °F	
Mold Temperature	60.0 - 90.0 °C	140 - 194 °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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