

Plastcom SLOVAMID 66 GF 35 FRG 5 Polyamide 66, 35% Glass Fiber, Halogen Free Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled , Nylon 66, Glass Fiber Filled, Flame Retardant

Material Notes:

Features PA 66 for injection moulding, chemical reinforced with 35% glass fiber and non-halogen flame retardant, with heat and flammability resistance, achieves V-0 in accordance with UL 94. Non-halogen flame retardant on the basis of red phosphorus guarantees excellent electric parameters like electric strength and CTI. Application in electrotechnical industry: breakers, coil forms, covers, terminals. Delivered in natural and black color. Application: Injection Moulding Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-SLOVAMID-66-GF-35-FRG-5-Polyamide-66-35-Glass-Fiber-Halogen-Free-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0052 cm/cm	0.0052 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0097 cm/cm	0.0097 in/in	STN 64 0808
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 230 °C	1.0 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	175 MPa	25400 psi	STN EN ISO 527-2
Elongation at Break	2.0 %	2.0 %	STN EN ISO 527-2
Tensile Modulus	10.5 GPa	1520 ksi	STN EN ISO 527-2
Flexural Strength	235 MPa	34100 psi	STN EN ISO 178
Flexural Modulus	9.80 GPa	1420 ksi	STN EN ISO 178
Charpy Impact Unnotched	7.00 J/cm ² @Temperature -20.0 °C	33.3 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	7.50 J/cm ² @Temperature 23.0 °C	35.7 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	1.20 J/cm ² @Temperature -20.0 °C	5.71 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	1.50 J/cm ² @Temperature 23.0 °C	7.14 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	DSC; STN EN ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	240 °C	464 °F	STN EN ISO 75/A
Vicat Softening Point	250 °C	482 °F	B; STN EN ISO 306
Flammability, UL94	V-0	V-0	
Glow Wire Test	960 °C	1760 °F	STN IEC 60695-2-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	STN IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	STN IEC 60093
Dielectric Strength	70.0 kV/mm	1780 kV/in	STN IEC 60243
Comparative Tracking Index	600 V	600 V	STN 34 6468

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 300 °C	536 - 572 °F	
Mold Temperature	70.0 - 90.0 °C	158 - 194 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.15 %	0.15 %	STN EN ISO 960
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	

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