

Plastcom SLOVAMID 6 GF 30 FRG 5 Polyamide 6, 30% Glass Fiber, Halogen Free Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled , Nylon 6, Glass Fiber Filled, Flame Retardant

Material Notes:

Features PA 6 for injection moulding, chemically reinforced with 30% glass fiber, with halogen flame retardant. Main features: flammability in accordance with UL 94 V0 at 1.6mm, glow wire at 960°C, CTI 300. Application for the electrical industry: protectors, coil forms, covers, terminals. Delivered in natural and in the full RAL color scale. 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-6-GF-30-FRG-5-Polyamide-6-30-Glass-Fiber-Halogen-Free-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0072 cm/cm	0.0072 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0087 cm/cm	0.0087 in/in	STN 64 0808
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 230 °C	2.0 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	165 MPa	23900 psi	STN EN ISO 527-2
Elongation at Break	2.0 %	2.0 %	STN EN ISO 527-2
Tensile Modulus	10.0 GPa	1450 ksi	STN EN ISO 527-2
Flexural Strength	205 MPa	29700 psi	STN EN ISO 178
Flexural Modulus	8.40 GPa	1220 ksi	STN EN ISO 178
Charpy Impact Unnotched	6.00 J/cm ² @Temperature -20.0 °C	28.6 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	6.50 J/cm ² @Temperature 23.0 °C	30.9 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
	0.800 J/cm ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	DSC; STN EN ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	STN EN ISO 75/A
Vicat Softening Point	210 °C	410 °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+15 ohm-cm	1.00e+15 ohm-cm	STN IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	STN IEC 60093
Dielectric Strength	60.0 kV/mm	1520 kV/in	STN IEC 60243
Comparative Tracking Index	550 V	550 V	STN 34 6468

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	176 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.15 %	0.15 %	STN EN ISO 960
Injection Pressure	70.0 - 100 MPa	10200 - 14500 psi	

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