

Plastcom SLOVAMID 66 GF 30 FRA 3 Polyamide 66, 30% Glass Fiber, Halogen Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled , Nylon 66, Glass Fiber Filled, Flame Retardant

Material Notes:

Features PA 66 for injection moulding, reinforced with 30% glass fiber and halogen flame retardant. Application in electrical industry: breakers, coil forms, covers, terminals. Slightly decreased flammability, glow wire 850°C. Application: Injection Moulding Information
Provided by Plastcom spol. s r.o.

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http://www.lookpolymers.com/polymer_Plastcom-SLOVAMID-66-GF-30-FRA-3-Polyamide-66-30-Glass-Fiber-Halogen-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0058 cm/cm	0.0058 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0099 cm/cm	0.0099 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	130 MPa	18900 psi	STN EN ISO 527-2
Elongation at Break	2.0 %	2.0 %	STN EN ISO 527-2
Tensile Modulus	6.00 GPa	870 ksi	STN EN ISO 527-2
Flexural Strength	180 MPa	26100 psi	STN EN ISO 178
Flexural Modulus	5.50 GPa	798 ksi	STN EN ISO 178
Charpy Impact Unnotched	5.50 J/cm ² @Temperature -20.0 °C	26.2 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	6.00 J/cm ² @Temperature 23.0 °C	28.6 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
	1.40 J/cm ² @Temperature 23.0 °C	6.66 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	DSC; STN EN ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	STN EN ISO 75/A
Vicat Softening Point	250 °C	482 °F	B; STN EN ISO 306
Flammability, UL94	V-2	V-2	
Glow Wire Test	850 °C	1560 °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	40.0 kV/mm	1020 kV/in	STN IEC 60243
Comparative Tracking Index	450 V	450 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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