

Plastcom SLOVAMID 66 GF 50 Polyamide 66, 50% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% Glass Fiber Filled

Material Notes:

Features Chemically reinforced with 50% glass fiber, suitable for mouldings with high strength and toughness also at low temperatures. Used in the automotive, engineering and electrical industry. With the increasing content of FG also the toughness, tensile and flexural strength increase, the shrinkage decreases and the heat application increases up to 150°C. It achieves higher rates of tensile strength and modulus of elasticity also in conditioning state when compared with PA 6 GF. PA 66 GF 50 achieves modulus - 16000 MPA - of the aluminum alloy rates. Application: hobby tools, covers of electrottools, electromotors, cooling screws of blowers, gear wheels, carrying parts in the automotive industry like brake cables. 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-66-GF-50-Polyamide-66-50-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0056 cm/cm	0.0056 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0093 cm/cm	0.0093 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	230 MPa	33400 psi	STN EN ISO 527-2
Elongation at Break	2.0 %	2.0 %	STN EN ISO 527-2
Tensile Modulus	16.0 GPa	2320 ksi	STN EN ISO 527-2
Flexural Strength	300 MPa	43500 psi	STN EN ISO 178
Flexural Modulus	14.0 GPa	2030 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
	9.00 J/cm ² @Temperature 23.0 °C	42.8 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

Mechanical Properties	1.40 J/cm ² Metric	6.66 ft-lb/in ² English	Comments 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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	HB	HB	
Glow Wire Test	650 °C	1200 °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+14 ohm	1.00e+14 ohm	STN IEC 60093
Dielectric Strength	90.0 kV/mm	2290 kV/in	STN IEC 60243
Comparative Tracking Index	575 V	575 V	STN 34 6468

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 300 °C	536 - 572 °F	
Mold Temperature	80.0 - 90.0 °C	176 - 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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