

Plastcom SLOVAMID 66 GF 35 Polyamide 66, 35% Glass Fiber

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

Material Notes:

Features Chemically reinforced with 35% 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. Application: hobby tools, covers of electrotools, 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-35-Polyamide-66-35-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0071 cm/cm	0.0071 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0105 cm/cm	0.0105 in/in	STN 64 0808
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 230 °C	3.0 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	200 MPa	29000 psi	STN EN ISO 527-2
Elongation at Break	2.0 %	2.0 %	STN EN ISO 527-2
Tensile Modulus	12.5 GPa	1810 ksi	STN EN ISO 527-2
Flexural Strength	270 MPa	39200 psi	STN EN ISO 178
Flexural Modulus	9.20 GPa	1330 ksi	STN EN ISO 178
Charpy Impact Unnotched	6.50 J/cm ² @Temperature -20.0 °C	30.9 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	7.14 ft-lb/in ²	STN EN ISO 179

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F 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)	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	40.0 kV/mm	1020 kV/in	STN IEC 60243
Comparative Tracking Index	400 V	400 V	STN 34 6468

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 300 °C	536 - 572 °F	
Mold Temperature	60.0 - 90.0 °C	140 - 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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