

Plastcom SLOVAMID 6 GF 50 Polyamide 6, 50% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 50% Glass Fiber Filled

Material Notes:

FeaturesPA 6 for injection moulding, chemically strengthened with 50% of glass fiber, for mouldings with high strength and toughness used in the automotive, electrical, engineering and consumer-goods industry. Application: grips of electrottools, hobby tools, gears, covers of electric appliances, cooling screws of blowers, electromotors, carrying parts in the automotive industry. Delivered in natural mode and in the full RAL color scale. Lightly impacted.Application: Injection MouldingInformation Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-SLOVAMID-6-GF-50-Polyamide-6-50-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 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	210 MPa	30500 psi	STN EN ISO 527-2
Elongation at Break	2.0 %	2.0 %	STN EN ISO 527-2
Tensile Modulus	14.5 GPa	2100 ksi	STN EN ISO 527-2
Flexural Strength	290 MPa	42100 psi	STN EN ISO 178
Flexural Modulus	12.5 GPa	1810 ksi	STN EN ISO 178
Charpy Impact Unnotched	8.50 J/cm ² @Temperature -20.0 °C	40.4 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	9.50 J/cm ² @Temperature 23.0 °C	45.2 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	1.50 J/cm ² @Temperature -20.0 °C	7.14 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	1.80 J/cm ² @Temperature 23.0 °C	8.57 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	DSC; STN EN ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	STN EN ISO 75/A
Vicat Softening Point	210 °C	410 °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	5.00e+13 ohm-cm	5.00e+13 ohm-cm	STN IEC 60093
Surface Resistance	8.00e+13 ohm	8.00e+13 ohm	STN IEC 60093
Dielectric Strength	40.0 kV/mm	1020 kV/in	STN IEC 60243
Comparative Tracking Index	575 V	575 V	STN 34 6468

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 280 °C	500 - 536 °F	
Mold Temperature	90.0 - 100 °C	194 - 212 °F	
Drying Temperature	90.0 °C	194 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.15 %	0.15 %	STN EN ISO 960
Injection Pressure	90.0 - 150 MPa	13100 - 21800 psi	

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