

Plastcom SLOVAMID 6 GF 35 Polyamide 6, 35% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Glass Fiber Filled

Material Notes:

FeaturesPA 6 for injection moulding, chemically strengthened with 35% of glass fiber, for mouldings with high strength and toughness used in the automotive, electrical, engineering and consumer-goods industry. Application: grips of electro tools, 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. 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-35-Polyamide-6-35-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0061 cm/cm	0.0061 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0145 cm/cm	0.0145 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	190 MPa	27600 psi	STN EN ISO 527-2
Elongation at Break	2.0 %	2.0 %	STN EN ISO 527-2
Tensile Modulus	9.50 GPa	1380 ksi	STN EN ISO 527-2
Flexural Strength	230 MPa	33400 psi	STN EN ISO 178
Flexural Modulus	8.90 GPa	1290 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	0.800 J/cm ² @Temperature -20.0 °C	3.81 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	1.20 J/cm ² @Temperature 23.0 °C	5.71 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)	200 °C	392 °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	20.0 kV/mm	508 kV/in	STN IEC 60243
Comparative Tracking Index	575 V	575 V	STN 34 6468

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 280 °C	482 - 536 °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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