

Plastcom SLOVAMID 6 GF 25 Polyamide 6, 25% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

Features PA 6 for injection moulding, chemically strengthened with 25% 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. 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-25-Polyamide-6-25-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0138 cm/cm	0.0138 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	140 MPa	20300 psi	STN EN ISO 527-2
Elongation at Break	3.0 %	3.0 %	STN EN ISO 527-2
Tensile Modulus	7.40 GPa	1070 ksi	STN EN ISO 527-2
Flexural Strength	200 MPa	29000 psi	STN EN ISO 178
Flexural Modulus	6.30 GPa	914 ksi	STN EN ISO 178
Charpy Impact Unnotched	2.70 J/cm ² @Temperature -20.0 °C	12.8 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	5.00 J/cm ² @Temperature 23.0 °C	23.8 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.700 J/cm ² @Temperature -20.0 °C	3.33 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	1.00 J/cm ² @Temperature 23.0 °C	4.76 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

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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