

Plastcom SLOVAMID 6 GF 40 Polyamide 6, 40% Glass Fiber

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

Material Notes:

Features PA 6 for injection moulding, chemically strengthened with 40% 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-40-Polyamide-6-40-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0152 cm/cm	0.0152 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0148 cm/cm	0.0148 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	13.2 GPa	1910 ksi	STN EN ISO 527-2
Flexural Strength	290 MPa	42100 psi	STN EN ISO 178
Flexural Modulus	11.0 GPa	1600 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
	9.00 J/cm ² @Temperature 23.0 °C	42.8 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	1.30 J/cm ² @Temperature -20.0 °C	6.19 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	1.40 J/cm ² @Temperature 23.0 °C	6.66 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

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	90.0 - 120 MPa	13100 - 17400 psi	

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