

Plastcom SLOVAMID 6 GF 50 LTS PA6, 50% glass fibre

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

Material Notes:

Features PA 6 for injection moulding, chemically strengthened with 50% of glass fibre, for mouldings with high strength and toughness used in the automotive, electrical, engineering and consumer-goods industry. Application: grips of electrotools, hobby tools, gears, covers of electric appliances, cooling screws of blowers, electromotors, carrying parts in the automotive industry. Delivered in natural and in the full RAL colour scale. PA 6 for injection moulding, lightly impacted. Packaging, transport, stocking The product is packed in hermetically closed thick-walled 25 kg PE bags, on a 1.000 kg palette coated in a stretch foil, in big bags with a thick PE foil fixed on a 1.000 kg palette, in paper octabins with a thick PE foil fixed on a 1.000 kg palette or in other packaging according to customer requirements. The transport is provided in closed-up vehicles where the material is protected against movement and mechanical damage. The product requires stocking in closed-up, dry places protected against sun and thermal radiation. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-SLOVAMID-6-GF-50-LTS-PA6-50-glass-fibre.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	
Viscosity Measurement	0.40 - 1.2	0.40 - 1.2	
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	
Melt Flow	1.0 g/10 min @Load 0.325 kg, Temperature 270 °C	1.0 g/10 min @Load 0.716 lb, Temperature 518 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	210 MPa	30500 psi	
Elongation at Break	2.0 %	2.0 %	
Tensile Modulus	14.5 GPa	2100 ksi	
Flexural Strength	290 MPa	42100 psi	
Flexural Modulus	12.5 GPa	1810 ksi	
Charpy Impact Unnotched	8.50 J/cm ² @Temperature -20.0 °C	40.4 ft-lb/in ² @Temperature -4.00 °F	
	9.50 J/cm ² @Temperature 23.0 °C	45.2 ft-lb/in ² @Temperature 73.4 °F	
	1.50 J/cm ²	7.14 ft-lb/in ²	

Charpy Impact, Notched Mechanical Properties	Metric @ Temperature -20.0 °C	English @ Temperature -4.00 °F	Comments
	1.80 J/cm ²	8.57 ft-lb/in ²	
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	
Vicat Softening Point	210 °C	410 °F	B
Flammability, UL94	HB	HB	
Glow Wire Test	650 °C	1200 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	
Dielectric Strength	40.0 kV/mm	1020 kV/in	
Comparative Tracking Index	575 V	575 V	

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 %	
Injection Pressure	90.0 - 150 MPa	13100 - 21800 psi	

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