

Plastcom SLOVAMID 6 GF 65/1M PA6 reinforced with 65% glass fibre

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 60% Glass Fiber Filled

Material Notes:

Features: PA 6 for injection moulding, chemically strengthened with 65% 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 skrews of blowers, electromotors, carrying parts in the automotive industry. Replacement of metal parts from ZAMAC and etc. Delivered in natural mode and in black. 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-651M-PA6-reinforced-with-65-glass-fibre.php

Physical Properties	Metric	English	Comments
Density	1.71 g/cc	0.0618 lb/in ³	
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0030 cm/cm	0.0030 in/in	
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	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	270 MPa	39200 psi	
Elongation at Break	2.3 %	2.3 %	
Tensile Modulus	22.8 GPa	3310 ksi	
Flexural Strength	420 MPa	60900 psi	
Flexural Modulus	18.3 GPa	2650 ksi	
Charpy Impact Unnotched	9.50 J/cm ²	45.2 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	10.0 J/cm ²	47.6 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.80 J/cm ²	8.57 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	
Deflection Temperature at 1.8 MPa (264 psi)	218 °C	424 °F	
Vicat Softening Point	222 °C	432 °F	
Flammability Test	1.0	1.0	
Glow Wire Test	650 °C	1200 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+12 ohm-cm	6.00e+12 ohm-cm	
Dielectric Strength	33.0 kV/mm	838 kV/in	
Comparative Tracking Index	600 V	600 V	

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 300 °C	518 - 572 °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	0.10 %	0.10 %	
Injection Pressure	90.0 - 150 MPa	13100 - 21800 psi	

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