

Plastcom SLOVAMID 66 GF 20 HI PA66, 20% glass beads

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Bead Filled

Material Notes:

Features Chemically reinforced with 20% glass beads, suitable for mouldings with high strength and toughness also at minus temperatures. Used in the automotive, engineering and electrical industry. It achieves higher rates of tensile strength and modulus of elasticity also in conditioning state when compared with PA 6 GF. Application: hobby tools, covers of electrottools, electromotors, cooling screws of blowers, gear wheels, carrying parts in the automotive industry like eg. brake cables. Delivered in natural mode and in the full RAL colour scale. 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-66-GF-20-HI-PA66-20-glass-beads.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	
Viscosity Measurement	0.80 - 1.2	0.80 - 1.2	
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	
Melt Flow	3.0 g/10 min @Load 0.325 kg, Temperature 270 °C	3.0 g/10 min @Load 0.716 lb, Temperature 518 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	
Elongation at Break	3.0 %	3.0 %	
Tensile Modulus	5.00 GPa	725 ksi	
Flexural Strength	150 MPa	21800 psi	
Flexural Modulus	4.70 GPa	682 ksi	
Charpy Impact Unnotched	4.50 J/cm ² @Temperature -20.0 °C	21.4 ft-lb/in ² @Temperature -4.00 °F	
	5.50 J/cm ² @Temperature 23.0 °C	26.2 ft-lb/in ² @Temperature 73.4 °F	

Mechanical Properties	Metric /cm ²	English lb/in ²	Comments
Charpy Impact, Notched	@Temperature -20.0 °C	@Temperature -4.00 °F	
	1.20 J/cm ²	5.71 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	
Vicat Softening Point	250 °C	482 °F	B
Flammability, UL94	HB	HB	
Glow Wire Test	650 °C	1200 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Strength	40.0 kV/mm	1020 kV/in	
Comparative Tracking Index	400 V	400 V	

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 300 °C	536 - 572 °F	
Mold Temperature	60.0 - 90.0 °C	140 - 194 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.15 %	0.15 %	
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	

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