

Plastcom SLOVAMID 66 GF 20 GF 10 PA66, 20% glass fibre, glass beads

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled , Nylon 66, Glass Bead Filled

Material Notes:

Features PA 66 chemically reinforced with 20% glass fibre and with the content of 10 % glass beads. Improved anisotropy of shrinkage. The relation of the anisotropy to the mechanical properties can be changed by the ideal combination of the glass fibre and the glass beads. High surface brightness, low rolling resistance force. Manufacturing of exact parts /mainly in flat form/, throttle valves in air piping. Increased strength and tension modulus in tension due to the addition of glass fibre. Delivered 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-GF-10-PA66-20-glass-fibre-glass-beads.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	
Viscosity Measurement	1.07 - 1.08	1.07 - 1.08	
Linear Mold Shrinkage	0.0108 cm/cm	0.0108 in/in	
Linear Mold Shrinkage, Transverse	0.0107 cm/cm	0.0107 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	110 MPa	16000 psi	
Elongation at Break	2.0 %	2.0 %	
Tensile Modulus	7.00 GPa	1020 ksi	
Flexural Strength	160 MPa	23200 psi	
Flexural Modulus	6.50 GPa	943 ksi	
Charpy Impact Unnotched	3.00 J/cm ² @Temperature 23.0 °C	14.3 ft-lb/in ² @Temperature 73.4 °F	
	3.00 J/cm ² @Temperature -20.0 °C	14.3 ft-lb/in ² @Temperature -4.00 °F	

Mechanical Properties	Metric /cm ²	English lb/in ²	Comments
Charpy Impact, Notched	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.500 J/cm ²	2.38 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	
Deflection Temperature at 1.8 MPa (264 psi)	230 °C	446 °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	450 V	450 V	

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 300 °C	536 - 572 °F	
Mold Temperature	70.0 - 80.0 °C	158 - 176 °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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