

Plastcom SLOVAMID 6 GF 35 FRC 5 PA6 reinforced with 35% glass fibre, with flame retardant

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

Material Notes:

PA 6 for injection moulding, chemically reinforced with 35 % glass fibre, with halogen free flame retardant. Main features: flammability in accordance with UL 94 V2 at 1.6 mm, glow wire at 750°C, CTI 600. Application for the electrical industry: protectors, coil forms, covers, terminals. Delivered in natural mode and in the full RAL color 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-6-GF-35-FRC-5-PA6-reinforced-with-35-glass-fibre-with-flame-retardant.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 230 °C	2.0 g/10 min @Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	
Elongation at Break	2.5 %	2.5 %	
Tensile Modulus	12.5 GPa	1810 ksi	
Flexural Strength	175 MPa	25400 psi	
Flexural Modulus	7.50 GPa	1090 ksi	
Charpy Impact Unnotched	3.30 J/cm ² @Temperature -20.0 °C	15.7 ft-lb/in ² @Temperature -4.00 °F	
	3.50 J/cm ² @Temperature 23.0 °C	16.7 ft-lb/in ² @Temperature 73.4 °F	
Charpy Impact, Notched	0.370 J/cm ²	1.76 ft-lb/in ²	

Mechanical Properties	@Temperature -20.0 °C Metric	@Temperature -4.00 °F English	Comments
	0.380 J/cm²	1.81 ft-lb/in²	
	@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)	200 °C	392 °F	
Vicat Softening Point	210 °C	410 °F	
Flammability Test	3.0 @Thickness 1.60 mm	3.0 @Thickness 0.0630 in	
Glow Wire Test	750 °C @Thickness 1.50 mm	1380 °F @Thickness 0.0591 in	

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	60.0 kV/mm	1520 kV/in	
Comparative Tracking Index	600 V	600 V	

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	50.0 - 70.0 °C	122 - 158 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.15 %	0.15 %	
Injection Pressure	70.0 - 100 MPa	10200 - 14500 psi	

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