

Plastcom SLOVAMID 6 GF 25 FRC 3 PA6, 25% glass fibre, flame retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled , Nylon 6, 30% Glass Fiber Filled , Nylon 6, Glass Fiber Filled, Flame Retardant

Material Notes:

Features PA 6 for injection moulding, chemically strengthened with 25 % glass fibre. Application: impacted mouldings and mouldings with high strength applied in automotive, electrical, engineering and consumer-goods industry, eg.: grips for electro tools, hobby tools, gears, cases of the electrottools, cooling skews of blowers, electromotors, carrying parts in the automotive industry. With the increasing content of GF also the toughness, bending and tensile strength increase as well as the heat application increases up to 250°C and the shrinkage decreases. 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-6-GF-25-FRC-3-PA6-25-glass-fibre-flame-retardant.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	
Viscosity Measurement	0.52 - 1.44	0.52 - 1.44	
Linear Mold Shrinkage	0.0052 cm/cm	0.0052 in/in	
Linear Mold Shrinkage, Transverse	0.0144 cm/cm	0.0144 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	120 MPa	17400 psi	
Elongation at Break	3.0 %	3.0 %	
Tensile Modulus	6.90 GPa	1000 ksi	
Flexural Strength	185 MPa	26800 psi	
Flexural Modulus	4.95 GPa	718 ksi	
Charpy Impact Unnotched	3.80 J/cm ² @Temperature -20.0 °C	18.1 ft-lb/in ² @Temperature -4.00 °F	
	4.40 J/cm ²	20.9 ft-lb/in ²	

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.400 J/cm ²	1.90 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)	200 °C	392 °F	
Vicat Softening Point	210 °C	410 °F	B
Flammability, UL94	V-2	V-2	
Glow Wire Test	850 °C	1560 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	24.0 kV/mm	610 kV/in	
Comparative Tracking Index	600 V	600 V	

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °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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