

Plastcom SLOVAMID 66 CF 40 PA66, 40% carbon fibre

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 40% Carbon Fiber Filled

Material Notes:

Features Chemically reinforced with 40% carbon fibre, suitable for mouldings with high strength and toughness also at minus temperatures. Used in the automotive, engineering and electrical industry. Delivered in black color. 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-CF-40-PA66-40-carbon-fibre.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	
Viscosity Measurement	0.56 - 0.73	0.56 - 0.73	
Linear Mold Shrinkage	0.0056 cm/cm	0.0056 in/in	
Linear Mold Shrinkage, Transverse	0.0073 cm/cm	0.0073 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	230 MPa	33400 psi	
Elongation at Break	2.0 %	2.0 %	
Tensile Modulus	17.5 GPa	2540 ksi	
Flexural Strength	320 MPa	46400 psi	
Flexural Modulus	14.8 GPa	2150 ksi	
Charpy Impact Unnotched	8.00 J/cm ² @Temperature -20.0 °C	38.1 ft-lb/in ² @Temperature -4.00 °F	
	9.50 J/cm ² @Temperature 23.0 °C	45.2 ft-lb/in ² @Temperature 73.4 °F	
Charpy Impact, Notched	1.20 J/cm ² @Temperature -20.0 °C	5.71 ft-lb/in ² @Temperature -4.00 °F	

Mechanical Properties	1.30 J/cm ² Metric	6.19 ft-lb/in ² English	Comments
	@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

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 300 °C	536 - 572 °F	
Mold Temperature	80.0 - 90.0 °C	176 - 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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