

Plastcom SLOVAMID® 6 GF 65/2M PA6 reinforced with glass fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

PA 6 for injection molding, reinforced with 65% of glass fiber, for moldings used in the automotive, electrical, engineering and consumer-goods industry. Application: grips of electrottools, hobby tools, gears, covers of electric appliances, cooling screws of blowers, electromotors, carrying parts in the automotive industry. Replacement of metal parts from ZAMAC and etc. Delivered in natural and black color. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-SLOVAMID-6-GF-652M-PA6-reinforced-with-glass-fiber.php

Physical Properties	Metric	English	Comments
Density	1.71 g/cc	0.0618 lb/in ³	STN EN ISO 1183-1
Filler Content	65 %	65 %	
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.0030 cm/cm	0.0030 in/in	STN EN ISO 294-4
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 230 °C	1.0 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	270 MPa	39200 psi	STN EN ISO 527-2
Elongation at Break	2.3 %	2.3 %	STN EN ISO 527-2
Tensile Modulus	22.8 GPa	3310 ksi	STN EN ISO 527-2
Flexural Strength	420 MPa	60900 psi	STN EN ISO 178
Flexural Modulus	18.3 GPa	2650 ksi	STN EN ISO 178
Charpy Impact Unnotched	9.50 J/cm ² @Temperature -20.0 °C	45.2 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	10.0 J/cm ² @Temperature 23.0 °C	47.6 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	1.80 J/cm ² @Temperature -20.0 °C	8.57 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	2.60 J/cm ² @Temperature 23.0 °C	12.4 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	STN EN 11357-1
Deflection Temperature at 1.8 MPa (264 psi)	218 °C	424 °F	STN EN ISO 75-2 (A)
Vicat Softening Point	222 °C	432 °F	STN EN ISO 306
Flammability, UL94	HB	HB	
Glow Wire Test	650 °C @Thickness 3.00 mm	1200 °F @Thickness 0.118 in	STN EN 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+14 ohm-cm	6.00e+14 ohm-cm	STN 34 6460
Dielectric Strength	33.0 kV/mm	838 kV/in	STN EN 60243-2
Comparative Tracking Index	600 V	600 V	STN EN 60112

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 300 °C	518 - 572 °F	
Mold Temperature	90.0 - 110 °C	194 - 230 °F	
Drying Temperature	90.0 °C @Time 14400 sec	194 °F @Time 4.00 hour	
Moisture Content	0.10 %	0.10 %	STN EN ISO 3344
Injection Pressure	90.0 - 150 MPa	13100 - 21800 psi	

Descriptive Properties	Value	Comments
Color	Black and Natural	

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