

Plastcom PLASTAMID® 6 GF 20 002 PA6 reinforced with glass fiber

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

Material Notes:

PA 6 for injection molding, reinforced with 20% glass fiber, for moldings used in the automotive, electrical, building, engineering and hobby industry - holders of electric hand tools, hobby tools, gears, covers of electric tools, automobile mirror housings, cooling screws of blowers, electromotors, bearing parts in the automotive industry. Delivered in black grade. Cost effective solution in comparison with Slovamid line. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-PLASTAMID-6-GF-20-002-PA6-reinforced-with-glass-fiber.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	STN EN ISO 1183-1
Filler Content	20 %	20 %	
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	STN EN ISO 294-4
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 130 °C	3.0 g/10 min @Load 4.76 lb, Temperature 266 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	STN EN ISO 527-2
Elongation at Break	3.0 %	3.0 %	STN EN ISO 527-2
Tensile Modulus	5.50 GPa	798 ksi	STN EN ISO 527-2
Flexural Strength	165 MPa	23900 psi	STN EN ISO 178
Flexural Modulus	4.50 GPa	653 ksi	STN EN ISO 178
Charpy Impact Unnotched	2.70 J/cm ² @Temperature -20.0 °C	12.8 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	4.50 J/cm ² @Temperature 23.0 °C	21.4 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.500 J/cm ² @Temperature -20.0 °C	2.38 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	0.800 J/cm ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	STN EN 11357-1
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	STN EN ISO 75-2 (A)
Vicat Softening Point	200 °C	392 °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

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 280 °C	482 - 536 °F	
Mold Temperature	70.0 - 90.0 °C	158 - 194 °F	
Drying Temperature	80.0 °C @Time 14400 sec	176 °F @Time 4.00 hour	
Moisture Content	0.15 %	0.15 %	STN EN ISO 3344
Injection Pressure	80.0 - 130 MPa	11600 - 18900 psi	

Descriptive Properties	Value	Comments
Color	Black	

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