

Plastcom PLASTAMID® 66 GF 20 PA66 reinforced with glass fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled

Material Notes:

PA66 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 color and in natural form. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-PLASTAMID-66-GF-20-PA66-reinforced-with-glass-fiber.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	STN EN ISO 1183-1
Filler Content	20 %	20 %	
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	STN EN ISO 294-4
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 275 °C	10 g/10 min @Load 4.76 lb, Temperature 527 °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	3.5 %	3.5 %	STN EN ISO 527-2
Tensile Modulus	5.50 GPa	798 ksi	STN EN ISO 527-2
Flexural Strength	205 MPa	29700 psi	STN EN ISO 178
Flexural Modulus	4.70 GPa	682 ksi	STN EN ISO 178
Charpy Impact Unnotched	3.50 J/cm ² @Temperature -20.0 °C	16.7 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	4.00 J/cm ² @Temperature 23.0 °C	19.0 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.300 J/cm ² @Temperature -20.0 °C	1.43 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	0.500 J/cm ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	262 °C	504 °F	STN EN 11357-1
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	STN EN ISO 75-2 (A)
Vicat Softening Point	250 °C	482 °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 - 290 °C	482 - 554 °F	
Mold Temperature	80.0 - 120 °C	176 - 248 °F	
Drying Temperature	90.0 °C @Time 14400 sec	194 °F @Time 4.00 hour	
Moisture Content	0.15 %	0.15 %	STN EN ISO 3344
Injection Pressure	80.0 - 110 MPa	11600 - 16000 psi	

Descriptive Properties	Value	Comments
Color	Black and Natural	

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