

Plastcom PLASTAMID® 6 GF 30 031 TS PA6 reinforced with glass fiber, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled , Nylon 6, Heat Stabilized

Material Notes:

PA 6 for injection molding, reinforced with 30% glass fiber, heat stabilized, better surface appearance of injection moldings. Decrease in tensile strength by 50 % after 5000 hours at 170°C. Used for holders of hand tools, hobby tools, gear wheels, covers of electric tools, intake piping, cylinder heads, induction coils, bearing parts in the motor fixing in the motor area. Delivered in black color. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-PLASTAMID-6-GF-30-031-TS-PA6-reinforced-with-glass-fiber-heat-stabilized.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in³	STN EN ISO 1183-1
Filler Content	30 %	30 %	
Linear Mold Shrinkage	0.0058 cm/cm	0.0058 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.0154 cm/cm	0.0154 in/in	STN EN ISO 294-4
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 230 °C	3.0 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa	21000 psi	STN EN ISO 527-2
Elongation at Break	4.0 %	4.0 %	STN EN ISO 527-2
Tensile Modulus	7.50 GPa	1090 ksi	STN EN ISO 527-2
Flexural Strength	200 MPa	29000 psi	STN EN ISO 178
Flexural Modulus	6.50 GPa	943 ksi	STN EN ISO 178
Charpy Impact Unnotched	4.00 J/cm² @Temperature -20.0 °C	19.0 ft-lb/in² @Temperature -4.00 °F	STN EN ISO 179
	5.00 J/cm² @Temperature 23.0 °C	23.8 ft-lb/in² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.900 J/cm² @Temperature -20.0 °C	4.28 ft-lb/in² @Temperature -4.00 °F	STN EN ISO 179
	1.00 J/cm²	4.76 ft-lb/in²	

Mechanical Properties	Metric	English	STN EN ISO 179 Comments
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	

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	70.0 - 120 MPa	10200 - 17400 psi	

Descriptive Properties	Value	Comments
Color	Black	

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