

Plastcom PLASTAMID® 66 GF 15 T 15 TS PA66 reinforced with glass fibers and mineral filler, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass/Mineral Filled

Material Notes:

Black PA66 for injection molding, reinforced with 15% glass fiber and 15% mineral filler, 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, electric motors, bearing parts in the automotive industry. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-PLASTAMID-66-GF-15-T-15-TS-PA66-reinforced-with-glass-fibers-and-mineral-filler-heat-stabilized.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	STN EN ISO 1183-1
Filler Content	15 %	15 %	Glass Fiber
	15 %	15 %	Mineral
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	STN EN ISO 294-4
Melt Flow	2.0 g/10 min	2.0 g/10 min	STN EN ISO 1133
	@Load 0.325 kg, Temperature 275 °C	@Load 0.716 lb, Temperature 527 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	STN EN ISO 527-2
Elongation at Break	3.5 %	3.5 %	STN EN ISO 527-2
Tensile Modulus	4.70 GPa	682 ksi	STN EN ISO 527-2
Flexural Strength	175 MPa	25400 psi	STN EN ISO 178
Flexural Modulus	3.90 GPa	566 ksi	STN EN ISO 178
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	STN EN ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	STN EN ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	STN EN ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Mechanical Properties	0.400 J/cm ² Metric	1.90 ft-lb/in ² English	Comments STN EN ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	STN EN 11357-1
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °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

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	STN 34 6460
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	STN 34 6460
Dielectric Strength	30.0 kV/mm	762 kV/in	STN EN 60243-2
Comparative Tracking Index	450 V	450 V	STN EN 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 290 °C	500 - 554 °F	
Mold Temperature	60.0 - 90.0 °C	140 - 194 °F	
Drying Temperature	80.0 °C @Time 14400 sec	176 °F @Time 4.00 hour	
Moisture Content	0.10 %	0.10 %	STN EN ISO 3344
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	

Descriptive Properties	Value	Comments
Color	Black	

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