

Plastcom SLOVAMID® 6 GF 35 LS PA6 reinforced with glass fiber, UV stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

PA 6 for injection molding, reinforced with 35% glass fiber, UV stabilized, 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 natural mode and in the full RAL color scale. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-SLOVAMID-6-GF-35-LS-PA6-reinforced-with-glass-fiber-UV-stabilized.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	STN EN ISO 1183-1
Filler Content	35 %	35 %	
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	STN EN ISO 294-4
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 230 °C	2.0 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	200 MPa	29000 psi	STN EN ISO 527-2
Elongation at Break	2.5 %	2.5 %	STN EN ISO 527-2
Tensile Modulus	11.5 GPa	1670 ksi	STN EN ISO 527-2
Flexural Strength	245 MPa	35500 psi	STN EN ISO 178
Flexural Modulus	8.70 GPa	1260 ksi	STN EN ISO 178
Charpy Impact Unnotched	8.00 J/cm ² @Temperature -20.0 °C	38.1 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	8.50 J/cm ² @Temperature 23.0 °C	40.4 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	1.10 J/cm ² @Temperature -20.0 °C	5.23 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	1.30 J/cm ² @Temperature 23.0 °C	6.19 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Mechanical Properties	Metric	English	Comments
Melting Point	222 °C	432 °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

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	25.0 kV/mm	635 kV/in	STN EN 60243-2
Comparative Tracking Index	350 V	350 V	STN EN 60112

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 270 °C	464 - 518 °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	0.15 %	0.15 %	STN EN ISO 3344
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	

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