

Plastcom SLOVAMID® 6 NG1 GF 30 HLS PA6 reinforced with glass fiber, UV stabilized, hydrolysis resistant

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

Material Notes:

PA 6 for injection molding, reinforced with 30% glass fiber, for moldings used in the automotive, weather and UV stabilized. Determined for using in outside automotive applications like door handle, mirrors, etc. 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-NG1-GF-30-HLS-PA6-reinforced-with-glass-fiber-UV-stabilized-hydrolysis-resistant.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	STN EN ISO 1183-1
Filler Content	30 %	30 %	
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	STN EN ISO 294-4
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 230 °C	5.0 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	170 MPa	24700 psi	STN EN ISO 527-2
Elongation at Break	3.0 %	3.0 %	STN EN ISO 527-2
Tensile Modulus	9.60 GPa	1390 ksi	STN EN ISO 527-2
Flexural Strength	235 MPa	34100 psi	STN EN ISO 178
Flexural Modulus	7.80 GPa	1130 ksi	STN EN ISO 178
Charpy Impact Unnotched	7.50 J/cm ² @Temperature -20.0 °C	35.7 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	1.00 J/cm ² @Temperature -20.0 °C	4.76 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	1.20 J/cm ²	5.71 ft-lb/in ²	STN EN ISO 179

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	STN EN 11357-1
Deflection Temperature at 1.8 MPa (264 psi)	255 °C	491 °F	STN EN ISO 75-2 (A)
Vicat Softening Point	245 °C	473 °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	240 - 270 °C	464 - 518 °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 - 100 MPa	10200 - 14500 psi	

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