

Plastcom SLOVAMID 66 GF 10 GB 20 Polyamide 66, 10% Glass Fiber, 20% Glass Beads

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Bead Filled

Material Notes:

Features PA 66 chemically reinforced with 10% glass fiber and with the content of 20% glass beads. Improved anisotropy of shrinkage. The relation of the anisotropy to the mechanical properties can be changed by the ideal combination of the glass fiber and the glass beads. High surface brightness, low rolling resistance force. Manufacturing of exact parts, mainly in flat form, throttle valves in air piping. Increased strength and tension modulus in tension due to the addition of glass fiber. Delivered in the full RAL color scale. Application: Injection Moulding

Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-SLOVAMID-66-GF-10-GB-20-Polyamide-66-10-Glass-Fiber-20-Glass-Beads.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0101 cm/cm	0.0101 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0164 cm/cm	0.0164 in/in	STN 64 0808
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 230 °C	1.0 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	STN EN ISO 527-2
Elongation at Break	2.0 %	2.0 %	STN EN ISO 527-2
Tensile Modulus	5.00 GPa	725 ksi	STN EN ISO 527-2
Flexural Strength	140 MPa	20300 psi	STN EN ISO 178
Flexural Modulus	5.40 GPa	783 ksi	STN EN ISO 178
Charpy Impact Unnotched	1.40 J/cm ² @Temperature -20.0 °C	6.66 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	2.00 J/cm ² @Temperature 23.0 °C	9.52 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.300 J/cm ² @Temperature 23.0 °C	1.43 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
	0.300 J/cm ²	1.43 ft-lb/in ²	STN EN ISO 179

Mechanical Properties	@Temperature -20.0 °C Metric	@Temperature -4.00 °F English	Comments
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Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	DSC; STN EN ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	STN EN ISO 75/A
Vicat Softening Point	250 °C	482 °F	B; STN EN ISO 306
Flammability, UL94	HB	HB	
Glow Wire Test	650 °C	1200 °F	STN IEC 60695-2-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	STN IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	STN IEC 60093
Dielectric Strength	40.0 kV/mm	1020 kV/in	STN IEC 60243
Comparative Tracking Index	450 V	450 V	STN 34 6468

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 300 °C	536 - 572 °F	
Mold Temperature	70.0 - 80.0 °C	158 - 176 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.15 %	0.15 %	STN EN ISO 960
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	

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