

Plastcom SLOVAMID 6 GF 10 FRG 5 Polyamide 6, 10% Glass Fiber, Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 10% Glass Fiber Filled , Nylon 6, Glass Fiber Filled, Flame Retardant

Material Notes:

Features PA 6 for injection moulding, chemically strengthened with 10% glass fiber. Application: impacted mouldings with high strength applied in automotive, electrical, engineering and consumer-goods industry, eg.: grips for electro tools, hobby tools, gears, cases of the electrottools, coolings screws of blowers, electromotors, carrying parts in the automotive industry. With the increasing content of GF also the toughness, bending and tensile strength increase as well as the heat application increases up to 150°C and the shrinkage decreases. Delivered in natural and 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-6-GF-10-FRG-5-Polyamide-6-10-Glass-Fiber-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0054 cm/cm	0.0054 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0078 cm/cm	0.0078 in/in	STN 64 0808
Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 230 °C	12 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	STN EN ISO 527-2
Elongation at Break	4.0 %	4.0 %	STN EN ISO 527-2
Tensile Modulus	5.95 GPa	863 ksi	STN EN ISO 527-2
Flexural Strength	172 MPa	24900 psi	STN EN ISO 178
Flexural Modulus	4.75 GPa	689 ksi	STN EN ISO 178
Charpy Impact Unnotched	5.00 J/cm ² @Temperature -20.0 °C	23.8 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	5.50 J/cm ² @Temperature 23.0 °C	26.2 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.700 J/cm ² @Temperature -20.0 °C	3.33 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	0.900 J/cm ²	4.28 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	DSC; STN EN ISO 3146
Vicat Softening Point	250 °C	482 °F	B; STN EN ISO 306
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
Glow Wire Test	960 °C	1760 °F	3mm; STN IEC 60695-2-10

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 270 °C	464 - 518 °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	0.20 %	0.20 %	STN EN ISO 960
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	

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