

Plastcom SLOVAMID 6 FRC 2 LS Polyamide 6, Halogen Free Flame Retardant, Light Stabilization

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced, Flame Retardant

Material Notes:

Features Longterm external use is possible because of the material stabilization with the light stabilizers on the HALS basis. Meets the flammability in accordance with the norm DIN 4102 - B1. PA 6 for injection moulding with increased flammability resistance with non-halogen flame retardant. Excellent flow of the material predetermines it for the manufacturing of complicated small as well as large surface mouldings. Possible for wall thickness from 0.5mm. High grade surface brightness also at colored types. 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-FRC-2-LS-Polyamide-6-Halogen-Free-Flame-Retardant-Light-Stabilization.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0126 cm/cm	0.0126 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0105 cm/cm	0.0105 in/in	STN 64 0808
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 230 °C	10 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	STN EN ISO 527-2
Elongation at Break	4.0 %	4.0 %	STN EN ISO 527-2
Tensile Modulus	2.70 GPa	392 ksi	STN EN ISO 527-2
Flexural Strength	100 MPa	14500 psi	STN EN ISO 178
Flexural Modulus	2.60 GPa	377 ksi	STN EN ISO 178
Charpy Impact Unnotched	11.0 J/cm ² @Temperature -20.0 °C	52.3 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	12.0 J/cm ² @Temperature 23.0 °C	57.1 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.200 J/cm ² @Temperature -20.0 °C	0.952 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	0.250 J/cm ²	1.19 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	STN EN ISO 179 Comments
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Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	DSC; STN EN ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	STN EN ISO 75/A
Vicat Softening Point	200 °C	392 °F	B; STN EN ISO 306
Flammability, UL94	V-0	V-0	
Glow Wire Test	960 °C	1760 °F	STN IEC 60695-2-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	STN IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	STN IEC 60093
Dielectric Strength	20.0 kV/mm	508 kV/in	STN IEC 60243
Comparative Tracking Index	500 V	500 V	STN 34 6468

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	50.0 - 70.0 °C	122 - 158 °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 - 100 MPa	10200 - 14500 psi	

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