

Plastcom SLOVAMID 6 FRB 4 Polyamide 6, Halogen Free Flame Retardant

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

Material Notes:

Features PA 6 for injection moulding with increased flammability resistance. Halogen-free flame retardant. Intended for electrical purposes. Manufacturing of simple large scale products. Good flow, good resistance against injection failure. Suitable also for thin-walled products, large scale cable boxes. 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-FRB-4-Polyamide-6-Halogen-Free-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0147 cm/cm	0.0147 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0153 cm/cm	0.0153 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	65.0 MPa	9430 psi	STN EN ISO 527-2
Elongation at Break	4.0 %	4.0 %	STN EN ISO 527-2
Tensile Modulus	2.80 GPa	406 ksi	STN EN ISO 527-2
Flexural Strength	95.0 MPa	13800 psi	STN EN ISO 178
Flexural Modulus	3.00 GPa	435 ksi	STN EN ISO 178
Charpy Impact Unnotched	5.00 J/cm ² @Temperature 23.0 °C	23.8 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
	5.00 J/cm ² @Temperature -20.0 °C	23.8 ft-lb/in ² @Temperature -4.00 °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
	0.300 J/cm ² @Temperature 23.0 °C	1.43 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

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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