

Plastcom SLOVAMID 66 BT Polyamide 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

FeaturesModified for general use, with excellent manufacturing properties, characterized by high strength and toughness also at low temperatures. Use in automotive, electrical, engineering and consumer goods industry. Application: electric tools, gear wheels, clamps, fasteners, toolbodies, webbing slings for cable harnesses.Application: Injection MouldingInformation Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-SLOVAMID-66-BT-Polyamide-66.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.018 cm/cm	0.018 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0193 cm/cm	0.0193 in/in	STN 64 0808
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 230 °C	4.0 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	STN EN ISO 527-2
Elongation at Break	3.0 %	3.0 %	STN EN ISO 527-2
Tensile Modulus	3.20 GPa	464 ksi	STN EN ISO 527-2
Flexural Strength	110 MPa	16000 psi	STN EN ISO 178
Flexural Modulus	2.70 GPa	392 ksi	STN EN ISO 178
Charpy Impact Unnotched	9.00 J/cm ² @Temperature -20.0 °C	42.8 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	10.0 J/cm ² @Temperature 23.0 °C	47.6 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.150 J/cm ² @Temperature -20.0 °C	0.714 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	0.200 J/cm ² @Temperature 23.0 °C	0.952 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	260 °C Metric	500 °F English	DSC- STN EN ISO 3146 Comments
Deflection Temperature at 1.8 MPa (264 psi)	68.0 °C	154 °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	960 °C	1760 °F	STN IEC 60695-2-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	STN IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	STN IEC 60093
Dielectric Strength	30.0 kV/mm	762 kV/in	STN IEC 60243
Comparative Tracking Index	600 V	600 V	STN 34 6468

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 300 °C	536 - 572 °F	
Mold Temperature	80.0 - 90.0 °C	176 - 194 °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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