

Plastcom SLOVAMID 6 HI Polyamide 6, Impacted

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Impact Grade

Material Notes:

Features PA 6 with the content of thermoplastic elastomer. Impacted, for mouldings with high toughness either at low temperatures, suitable for external use, eg. ski shoes, sports and safety helmets, protection ledges of the car-doors. 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-HI-Polyamide-6-Impacted.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	STN 64 0111
Linear Mold Shrinkage	0.0208 cm/cm	0.0208 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0204 cm/cm	0.0204 in/in	STN 64 0808
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 230 °C	5.0 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	58.0 MPa	8410 psi	STN EN ISO 527-2
Elongation at Break	4.0 %	4.0 %	STN EN ISO 527-2
Tensile Modulus	2.25 GPa	326 ksi	STN EN ISO 527-2
Flexural Strength	73.0 MPa	10600 psi	STN EN ISO 178
Flexural Modulus	1.93 GPa	280 ksi	STN EN ISO 178
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	STN EN ISO 179
	NB @Temperature -20.0 °C	NB @Temperature -4.00 °F	STN EN ISO 179
Charpy Impact, Notched	1.00 J/cm ² @Temperature -20.0 °C	4.76 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	2.40 J/cm ² @Temperature 23.0 °C	11.4 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	220 °C Metric	428 °F English	DSC: STN EN ISO 3146 Comments
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	STN EN ISO 75/A
Vicat Softening Point	179 °C	354 °F	B; STN EN ISO 306
Flammability, UL94	HB	HB	
Glow Wire Test	850 °C	1560 °F	STN IEC 60695-2-10

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 260 °C	464 - 500 °F	
Mold Temperature	50.0 - 60.0 °C	122 - 140 °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	80.0 - 150 MPa	11600 - 21800 psi	

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