

Plastcom SLOVAMID 6 HI-M PA6 with improved impact strength

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

Material Notes:

PA 6 with the content of thermoplastic elastomer. Impacted, for moldings with higher toughness even at low temperatures, suitable for external use, eg. ski shoes, sports and safety helmets, protection ledges of the car-doors. Delivered in natural mode and in the full RAL color scale. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-SLOVAMID-6-HI-M-PA6-with-improved-impact-strength.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	STN EN ISO 1183-1
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 230 °C	7.0 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	STN EN ISO 527-2
Elongation at Break	4.0 %	4.0 %	STN EN ISO 527-2
Tensile Modulus	1.45 GPa	210 ksi	STN EN ISO 527-2
Flexural Strength	60.0 MPa	8700 psi	STN EN ISO 178
Flexural Modulus	1.20 GPa	174 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	1.60 J/cm ² @Temperature -20.0 °C	7.61 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	2.10 J/cm ² @Temperature 23.0 °C	9.99 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	STN EN 11357-1
Deflection Temperature at 1.8 MPa (264 psi)	58.0 °C	136 °F	STN EN ISO 75-2 (A)

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	
Glow Wire Test	650 °C @Thickness 3.00 mm	1200 °F @Thickness 0.118 in	STN EN 60695-2-12

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 @Time 14400 sec	176 °F @Time 4.00 hour	
Moisture Content	0.15 %	0.15 %	STN EN ISO 3344
Injection Pressure	80.0 - 150 MPa	11600 - 21800 psi	

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