

## Plastcom SLOVAMID 6 BT Polyamide 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

Features Basic type PA 6 for injection moulding, modified for general use, with excellent manufacturing properties. Use: automotive, engineering, electrical and consumer-goods industry - electrical tools, fasteners, clamps, hobby tools, toys. Delivered in the 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-BT-Polyamide-6.php](http://www.lookpolymers.com/polymer_Plastcom-SLOVAMID-6-BT-Polyamide-6.php)

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in <sup>3</sup>	STN 64 0111
Linear Mold Shrinkage	0.018 cm/cm	0.018 in/in	STN 64 0808
Linear Mold Shrinkage, Transverse	0.0183 cm/cm	0.0183 in/in	STN 64 0808
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 230 °C	6.0 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	STN EN ISO 527-2
Elongation at Break	3.5 %	3.5 %	STN EN ISO 527-2
Tensile Modulus	3.10 GPa	450 ksi	STN EN ISO 527-2
Flexural Strength	115 MPa	16700 psi	STN EN ISO 178
Flexural Modulus	2.70 GPa	392 ksi	STN EN ISO 178
Charpy Impact Unnotched	8.00 J/cm <sup>2</sup> @Temperature -20.0 °C	38.1 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	STN EN ISO 179
	12.0 J/cm <sup>2</sup> @Temperature 23.0 °C	57.1 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.150 J/cm <sup>2</sup> @Temperature -20.0 °C	0.714 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	STN EN ISO 179
	0.160 J/cm <sup>2</sup> @Temperature 23.0 °C	0.761 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	STN EN ISO 179

Thermal Properties	Metric	English	Comments
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<b>Melting Point</b> Thermal Properties	<b>220 °C</b> Metric	<b>428 °F</b> English	<b>DSC: STN EN ISO 3146</b> Comments
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	STN EN ISO 75/A
Vicat Softening Point	190 °C	374 °F	B; STN EN ISO 306
Flammability, UL94	HB	HB	
Glow Wire Test	960 °C	1760 °F	STN IEC 60695-2-10

<b>Electrical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
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	18.0 kV/mm	457 kV/in	STN IEC 60243
Comparative Tracking Index	600 V	600 V	STN 34 6468

<b>Processing Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °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	

## Contact Songhan Plastic Technology Co.,Ltd.

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