

Plastcom PLASTAMID® 66 BT SD PA66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Basic type PA66 for injection molding, modified for general use. PA66 contains TiO2 up to 0.5% wt. Use: automotive, engineering, electrical and consumer-goods industry - electrical tools, fasteners, clamps, hobby tools, toys. Delivered in the natural color. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-PLASTAMID-66-BT-SD-PA66.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	STN EN ISO 1183-1
Linear Mold Shrinkage	0.018 cm/cm	0.018 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	STN EN ISO 294-4
Melt Flow	12 g/10 min @Load 0.325 kg, Temperature 275 °C	12 g/10 min @Load 0.716 lb, Temperature 527 °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	1.5 %	1.5 %	STN EN ISO 527-2
Tensile Modulus	3.20 GPa	464 ksi	STN EN ISO 527-2
Flexural Strength	75.0 MPa	10900 psi	STN EN ISO 178
Flexural Modulus	2.00 GPa	290 ksi	STN EN ISO 178
Charpy Impact Unnotched	4.50 J/cm ² @Temperature 23.0 °C	21.4 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
	4.50 J/cm ² @Temperature -20.0 °C	21.4 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
Charpy Impact, Notched	0.200 J/cm ² @Temperature 23.0 °C	0.952 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
	0.200 J/cm ² @Temperature -20.0 °C	0.952 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	260 °C Metric	500 °F English	STN EN 11357-1 Comments
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	STN EN ISO 75-2 (A)
Vicat Softening Point	250 °C	482 °F	STN EN ISO 306
Flammability, UL94	V-2 @Thickness 3.20 mm	V-2 @Thickness 0.126 in	
Glow Wire Test	960 °C @Thickness 3.00 mm	1760 °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	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	80.0 °C @Time 14400 sec	176 °F @Time 4.00 hour	
Moisture Content	0.25 %	0.25 %	STN EN ISO 3344
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	

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