

Plastcom PLASTAMID® 6HM PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

PA 6 for compounding, basic type, modified for general use, used in the automotive, electrical, engineering and consumer goods industry.

Delivered in natural color - white (contains TiO2) Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-PLASTAMID-6HM-PA6.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 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	0.0183 cm/cm	0.0183 in/in	STN EN ISO 294-4
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	65.0 MPa	9430 psi	STN EN ISO 527-2
Elongation at Break	3.0 %	3.0 %	STN EN ISO 527-2
Tensile Modulus	2.40 GPa	348 ksi	STN EN ISO 527-2
Flexural Strength	85.0 MPa	12300 psi	STN EN ISO 178
Flexural Modulus	2.30 GPa	334 ksi	STN EN ISO 178
Charpy Impact Unnotched	7.00 J/cm ² @Temperature -20.0 °C	33.3 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	13.5 J/cm ² @Temperature 23.0 °C	64.2 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.250 J/cm ² @Temperature -20.0 °C	1.19 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	0.400 J/cm ² @Temperature 23.0 °C	1.90 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

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	30.0 °C	122 °F	STN EN ISO 75-2 (A)
Vicat Softening Point	190 °C	374 °F	STN EN ISO 306

Processing Properties	Metric	English	Comments
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	
	@Time 14400 sec	@Time 4.00 hour	
Moisture Content	0.15 %	0.15 %	STN EN ISO 3344
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	

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