

SABIC Innovative Plastics LNP Thermotuf P1000IX3 PA 6 (Europe-Africa-Middle East)

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

Material Notes:

LNP* THERMOTUF* P1000IX3 is a compound based on PA6 resin containing Impact Modifier. Added features include : High Impact. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermotuf-P1000IX3-PA-6-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Water Absorption	2.3 % @Temperature 23.0 °C, Time 86400 sec	2.3 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.014 cm/cm	0.014 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	50 mm/min; ISO 527
Elongation at Yield	4.1 %	4.1 %	50 mm/min; ISO 527
Tensile Modulus	2.00 GPa	290 ksi	1 mm/min; ISO 527
Flexural Yield Strength	61.0 MPa	8850 psi	2 mm/min; ISO 178
Flexural Modulus	1.60 GPa	232 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	36.0 kJ/m ² @Temperature 23.0 °C	17.1 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	143 µm/m-°C @Temperature 23.0 - 60.0 °C	79.4 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	160 µm/m-°C @Temperature 23.0 - 60.0 °C	88.9 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2

Deflection Temperature at 0.46 MPa Thermal Properties (107 (224))	136 °C Metric	277 °F English	Flatw 80*10*4 sp=64mm; ISO 75/Bf Comments
Deflection Temperature at 1.8 MPa (264 psi)	48.0 °C	118 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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