

## SABIC Innovative Plastics LNP Thermotuf PF007IX2 PA 6 (Europe-Africa-Middle East)

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

### Material Notes:

LNP \* THERMOTUF\* PF007IX2 is a compound based on PA 6 resin containing Glass Fiber. 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-PF007IX2-PA-6-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermotuf-PF007IX2-PA-6-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	123 MPa	17800 psi	5 mm/min; ISO 527
Tensile Strength, Yield	125 MPa	18100 psi	5 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527
	4.0 %	4.0 %	Flexural Strain, 2 mm/min; ISO 178
Elongation at Yield	2.9 %	2.9 %	5 mm/min; ISO 527
Tensile Modulus	8.70 GPa	1260 ksi	1 mm/min; ISO 527
Flexural Yield Strength	171 MPa	24800 psi	2 mm/min; ISO 178
Flexural Modulus	6.80 GPa	986 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	20.0 kJ/m <sup>2</sup> @Temperature 23.0 Â°C	9.52 ft-lb/in <sup>2</sup> @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	55.0 kJ/m <sup>2</sup> @Temperature 23.0 Â°C	26.2 ft-lb/in <sup>2</sup> @Temperature 73.4 Â°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.0 Âµm/m-Â°C	15.0 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
	122 Âµm/m-Â°C	67.8 Âµin/in-Â°F	

CTE linear, Transverse to Flow Thermal Properties	Metric @ Temperature 23.0 - 60.0 Â°C	English @ Temperature 73.4 - 140 Â°F	ISO 11359-2 Comments
Deflection Temperature at 0.46 MPa (66 psi)	217 Â°C	423 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	200 Â°C	392 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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