

## SABIC Innovative Plastics LNP Thermotuf WF006I Polyester, TP

Category : Polymer , Thermoplastic , Polyester, TP

### Material Notes:

LNP THERMOTUF\* WF006I is a compound based on Polyester, TP resin containing Glass Fiber. Added features of this material include: High Impact. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-Thermotuf-WF006I-Polyester-TP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermotuf-WF006I-Polyester-TP.php)

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in <sup>3</sup>	ISO 1183
	1.474 g/cc	0.05325 lb/in <sup>3</sup>	ASTM D 792
Linear Mold Shrinkage, Flow	0.0029 cm/cm	0.0029 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 cm/cm	0.0030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0129 cm/cm	0.0129 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.013 cm/cm	0.013 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	106 MPa	15400 psi	ASTM D 638
Tensile Strength, Yield	107 MPa	15500 psi	ASTM D 638
	109 MPa	15800 psi	ISO 527
Elongation at Break	2.8 %	2.8 %	ISO 527
	3.9 %	3.9 %	ASTM D 638
Elongation at Yield	2.1 %	2.1 %	ISO 527
	3.2 %	3.2 %	ASTM D 638
Tensile Modulus	6.52 GPa	946 ksi	1 mm/min; ISO 527
	8.96 GPa	1300 ksi	50 mm/min; ASTM D 638
Flexural Strength	173 MPa	25100 psi	ASTM D 790

Mechanical Properties	181 MPa Metric	26300 psi English	ISO 178 Comments
Flexural Modulus	7.51 GPa	1090 ksi	ASTM D 790
	8.62 GPa	1250 ksi	ISO 178
Izod Impact, Notched	1.86 J/cm @Temperature 23.0 °C	3.48 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	9.98 J/cm @Temperature 23.0 °C	18.7 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	20.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	9.52 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	64.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	30.5 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	17.0 J @Temperature 23.0 °C	12.5 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	210 °C @Thickness 3.20 mm	410 °F @Thickness 0.126 in	unannealed; ASTM D 648

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