

## SABIC Innovative Plastics LNP THERMOTUF VX99809 Super Tough Nylon

Category : Polymer , Thermoplastic , Nylon

**Material Notes:**

Super Tough Nylon, Proprietary Filler(s),

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOTUF-VX99809-Super-Tough-Nylon.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOTUF-VX99809-Super-Tough-Nylon.php)

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in <sup>3</sup>	ISO 1183
	1.084 g/cc	0.03916 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.920 %	0.920 %	50% RH, 24 hrs; ASTM D570
	1.90 %	1.90 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm	0.020 - 0.040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	Type I, 5 mm/min; ASTM D638
	41.0 MPa	5950 psi	5 mm/min; ISO 527
Tensile Strength, Yield	42.0 MPa	6090 psi	5 mm/min; ISO 527
	43.0 MPa	6240 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	75.4 %	75.4 %	Type I, 5 mm/min; ASTM D638
	129 %	129 %	5 mm/min; ISO 527
Elongation at Yield	3.6 %	3.6 %	5 mm/min; ISO 527
	3.9 %	3.9 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.88 GPa	273 ksi	1 mm/min; ISO 527
	1.98 GPa	287 ksi	50 mm/min; ASTM D638
Flexural Modulus	1.22 GPa	177 ksi	1.3 mm/min, 50 mm span; ASTM D790
	1.30 GPa	189 ksi	2 mm/min; ISO 178

Izod Impact Notched Mechanical Properties	8.85 J/cm Metric	16.6 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	13.3 J/cm	24.9 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	82.0 kJ/m <sup>2</sup>	39.0 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	145 kJ/m <sup>2</sup>	69.0 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Impact Test	49.0 J	36.1 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	178 °C @Thickness 3.20 mm	352 °F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China