

SABIC Innovative Plastics LNP THERMOTUF VX99810 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-VX99810-Super-Tough-Nylon.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
	1.177 g/cc	0.04252 lb/in ³	ASTM D792
Moisture Absorption	1.20 %	1.20 %	50% RH, 24 hrs; ASTM D570
	1.90 %	1.90 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	69.0 MPa	10000 psi	Type I, 5 mm/min; ASTM D638
	70.0 MPa	10200 psi	5 mm/min; ISO 527
Tensile Strength, Yield	72.0 MPa	10400 psi	5 mm/min; ISO 527
	74.0 MPa	10700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.1 %	3.1 %	5 mm/min; ISO 527
	4.5 %	4.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.5 %	2.5 %	5 mm/min; ISO 527
	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.41 GPa	640 ksi	1 mm/min; ISO 527
	4.66 GPa	676 ksi	50 mm/min; ASTM D638
Flexural Modulus	3.09 GPa	448 ksi	1.3 mm/min, 50 mm span; ASTM D790
	3.24 GPa	470 ksi	2 mm/min; ISO 178

Izod Impact, Notched Mechanical Properties	1.43 J/cm Metric	2.68 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	7.09 J/cm	13.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1U
Impact Test	7.00 J	5.16 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	230 °C	446 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	238 °C @Thickness 3.20 mm	460 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	184 °C	363 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	204 °C @Thickness 3.20 mm	399 °F @Thickness 0.126 in	unannealed; ASTM D648

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