

SABIC Innovative Plastics LNP THERMOTUF PX95726 PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP THERMOTUF* PX95726 is a compound based on Nylon 6 resin containing Glass Fiber. Added features of this material include: Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOTUF-PX95726-PA-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
Moisture Absorption	1.10 %	1.10 %	50% RH, 24 hrs; ASTM D570
	1.60 %	1.60 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm @Time 86400 sec	0.0030 - 0.0060 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 - 0.011 cm/cm @Time 86400 sec	0.0080 - 0.011 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	5 mm/min; ISO 527
	107 MPa	15500 psi	ASTM D638
	108 MPa	15700 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	109 MPa	15800 psi	5 mm/min; ISO 527
	111 MPa	16100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.7 %	3.7 %	Type I, 5 mm/min; ASTM D638
	3.8 %	3.8 %	5 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	5 mm/min; ISO 527
	3.1 %	3.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	5.79 GPa	840 ksi	1 mm/min; ISO 527
	5.83 GPa	846 ksi	50 mm/min; ASTM D638
Flexural Strength	160 MPa	23200 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	173 MPa	25100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.79 GPa	695 ksi	2 mm/min; ISO 178
	4.96 GPa	719 ksi	1.3 mm/min, 50 mm span; ASTM D790
	5.03 GPa	730 ksi	ASTM D790
Izod Impact, Notched	0.670 J/cm	1.26 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.76 J/cm	16.4 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	53.0 kJ/m ²	25.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J @Temperature 23.0 Â°C	8.11 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	44.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	24.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	138 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	76.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	214 Â°C	417 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	191 Â°C	376 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	201 Â°C @Thickness 3.20 mm	394 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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