

SABIC Innovative Plastics LNP THERMOTUF VF006U Super Tough Nylon

Category : Polymer , Thermoplastic , Nylon

Material Notes:

LNP* Thermotuf* VF006U is a compound based on Super Tough Nylon containing Glass Fiber. Characteristics of this grade are High Impact.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOTUF-VF006U-Super-Tough-Nylon.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ASTM D792
Moisture Absorption	0.500 %	0.500 %	50% RH, 24 hrs; ASTM D570
	0.720 %	0.720 %	23Â°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	0.0090 - 0.020 cm/cm @Time 86400 sec	0.0090 - 0.020 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	Type I, 5 mm/min; ASTM D638
	95.0 MPa	13800 psi	5 mm/min; ISO 527
Elongation at Break	2.1 %	2.1 %	5 mm/min; ISO 527
	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	7.65 GPa	1110 ksi	1 mm/min; ISO 527
	7.78 GPa	1130 ksi	50 mm/min; ASTM D638
Flexural Strength	114 MPa	16500 psi	1.3 mm/min, 50 mm span; ASTM D790
	131 MPa	19000 psi	ISO 178
Flexural Yield Strength	119 MPa	17300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.14 GPa	891 ksi	1.3 mm/min, 50 mm span; ASTM D790
	6.74 GPa	978 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.830 J/cm	1.55 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	34.0 kJ/m ²	16.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	17.0 J @Temperature 23.0 Â°C	12.5 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	41.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	22.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	99.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	55.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	254 Â°C	489 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	253 Â°C @Thickness 3.20 mm	487 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	237 Â°C	459 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	235 Â°C @Thickness 3.20 mm	455 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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