

SABIC Innovative Plastics LNP Thermotuf RF006I PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Thermotuf* RF006I is a compound based on Nylon 66 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-RF006I-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
	1.38 g/cc	0.0499 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.63 %	0.63 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0027 cm/cm	0.0027 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	0.011 cm/cm	0.011 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0112 cm/cm	0.0112 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	161 MPa	23400 psi	ASTM D 638
	179 MPa	26000 psi	ISO 527
Elongation at Break	2.9 %	2.9 %	ISO 527
	3.2 %	3.2 %	ASTM D 638
Tensile Modulus	10.41 GPa	1510 ksi	50 mm/min; ASTM D 638
	10.84 GPa	1572 ksi	1 mm/min; ISO 527
Flexural Strength	248 MPa	36000 psi	ASTM D 790
	266 MPa	38600 psi	ISO 178
Flexural Modulus	8.68 GPa	1260 ksi	ASTM D 790

Mechanical Properties	Metric 9.48 GPa	English 1360 ksi	Comments ISO 178
Izod Impact, Notched	1.17 J/cm @Temperature 23.0 Â°C	2.19 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	11.21 J/cm @Temperature 23.0 Â°C	21.00 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	14.0 kJ/mÂ² @Temperature 23.0 Â°C	6.66 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	75.0 kJ/mÂ² @Temperature 23.0 Â°C	35.7 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603
	17.0 J @Temperature 23.0 Â°C	12.5 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.5 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	15.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	27.5 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	15.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	60.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	33.8 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	60.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	33.8 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	259 Â°C @Thickness 3.20 mm	498 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	121 Â°C @Thickness 3.20 mm	250 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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