

SABIC Innovative Plastics LNP THERMOTUF CF007IXP PS

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

LNP* Thermotuf* CF007IXP is a compound based on Polystyrene 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-CF007IXP-PS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
Moisture Absorption	0.0500 %	0.0500 %	50% RH, 24 hrs; ASTM D570
	0.0600 %	0.0600 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.0 MPa	6380 psi	5 mm/min; ISO 527
	50.0 MPa	7250 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	0.60 %	0.60 %	5 mm/min; ISO 527
	0.70 %	0.70 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.91 GPa	1290 ksi	1 mm/min; ISO 527
	10.23 GPa	1484 ksi	50 mm/min; ASTM D638
Flexural Strength	68.0 MPa	9860 psi	ISO 178
Flexural Yield Strength	71.0 MPa	10300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.76 GPa	1270 ksi	2 mm/min; ISO 178
	8.82 GPa	1280 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.230 J/cm	0.431 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.30 J/cm	2.44 ft-lb/in	ASTM D4812

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J @Temperature 23.0 Â°C	5.90 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	52.6 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	29.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	53.3 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	29.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	97.0 Â°C	207 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	97.0 Â°C @Thickness 3.20 mm	207 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	92.0 Â°C	198 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	92.0 Â°C @Thickness 3.20 mm	198 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