

SABIC Innovative Plastics LNP THERMOCOMP CF008 PS

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

LNP* THERMOCOMP* CF008 is a compound based on Polystyrene resin containing 40% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-CF008-PS.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Moisture Absorption	0.0700 %	0.0700 %	50% RH, 24 hrs; ASTM D570
	0.0800 %	0.0800 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	5 mm/min; ISO 527
	57.0 MPa	8270 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	9.64 GPa	1400 ksi	1 mm/min; ISO 527
	12.78 GPa	1854 ksi	50 mm/min; ASTM D638
Flexural Strength	98.0 MPa	14200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	10.32 GPa	1497 ksi	2 mm/min; ISO 178
	11.4 GPa	1650 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.360 J/cm	0.674 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.01 J/cm	1.89 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A

Mechanical Properties	Metric	English	Comments
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	37.2 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	20.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	33.9 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	18.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	96.0 Â°C	205 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	95.0 Â°C @Thickness 3.20 mm	203 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Â°C	194 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	89.0 Â°C @Thickness 3.20 mm	192 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