

SABIC Innovative Plastics LNP THERMOCOMP BF004 SAN

Category : Polymer , Thermoplastic , SAN Polymer

Material Notes:

LNP* THERMOCOMP* BF004 is a compound based on SAN resin containing 20% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-BF004-SAN.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Moisture Absorption	0.190 %	0.190 %	50% RH, 24 hrs; ASTM D570
	0.260 %	0.260 %	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	103 MPa	14900 psi	5 mm/min; ISO 527
	108 MPa	15700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.6 %	1.6 %	5 mm/min; ISO 527
	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.22 GPa	1190 ksi	1 mm/min; ISO 527
	8.26 GPa	1200 ksi	50 mm/min; ASTM D638
Flexural Strength	140 MPa	20300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	7.28 GPa	1060 ksi	2 mm/min; ISO 178
	7.59 GPa	1100 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.96 J/cm	3.67 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	7.00 J @Temperature 23.0 Â°C	5.16 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	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	47.3 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	26.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	104 Â°C	219 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	104 Â°C @Thickness 3.20 mm	219 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	100 Â°C	212 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	100 Â°C @Thickness 3.20 mm	212 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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