

SABIC Innovative Plastics LNP THERMOCOMP NF004 PC+ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Glass Fiber Filled , Polycarbonate (PC)

Material Notes:

LNP* THERMOCOMP* NF004 is a compound based on PC+ABS resin containing 20% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-NF004-PCABS.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0041 cm/cm	0.0041 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0058 cm/cm	0.0058 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	ISO 527
	97.0 MPa	14100 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
	2.5 %	2.5 %	ISO 527
Tensile Modulus	6.48 GPa	940 ksi	1 mm/min; ISO 527
	6.89 GPa	999 ksi	50 mm/min; ASTM D638
Flexural Strength	137 MPa	19900 psi	ASTM D790
	143 MPa	20700 psi	ISO 178
Flexural Modulus	6.00 GPa	870 ksi	ISO 178
	6.20 GPa	899 ksi	ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	5.98 J/cm	11.2 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	37.0 kJ/m ²	17.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	18.0 J	13.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	77.0 Åµm/m-Å°C	42.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	77.4 Åµm/m-Å°C	43.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	32.0 Åµm/m-Å°C	17.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	32.4 Åµm/m-Å°C	18.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	140 Å°C	284 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	138 Å°C	280 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	134 Å°C	273 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	135 Å°C	275 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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