

SABIC Innovative Plastics LNP THERMOCOMP NF001 PC+ABS

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

Material Notes:

LNP THERMOCOMP* NF001 is a compound based on PC+ABS resin containing 5% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-NF001-PCABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Density	1.18 g/cc	0.0426 lb/in ³	ASTM D792
Moisture Absorption	0.170 %	0.170 %	50% RH, 24 hrs; ASTM D570
	0.250 %	0.250 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	49.0 MPa	7110 psi	Type I, 5 mm/min; ASTM D638
	51.0 MPa	7400 psi	5 mm/min; ISO 527
Tensile Strength, Yield	62.0 MPa	8990 psi	5 mm/min; ISO 527
	63.0 MPa	9140 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	5.3 %	5.3 %	5 mm/min; ISO 527
	6.2 %	6.2 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.4 %	3.4 %	Type I, 5 mm/min; ASTM D638
	3.4 %	3.4 %	5 mm/min; ISO 527
Tensile Modulus	3.30 GPa	479 ksi	1 mm/min; ISO 527
	3.47 GPa	503 ksi	50 mm/min; ASTM D638
Flexural Strength	94.0 MPa	13600 psi	ISO 178
Flexural Yield Strength	102 MPa	14800 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Modulus Mechanical Properties	3.12 GPa Metric	453 ksi English	2 mm/min: ISO 178 Comments
	3.22 GPa	467 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.52 J/cm	2.85 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.05 J/cm	11.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 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	34.0 J @Temperature 23.0 Â°C	25.1 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	21.0 J	15.5 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	52.8 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	29.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	82.1 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	45.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	134 Â°C	273 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	136 Â°C @Thickness 3.20 mm	277 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	120 Â°C	248 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	123 Â°C @Thickness 3.20 mm	253 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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