

SABIC Innovative Plastics LNP THERMOCOMP NF002 PC+ABS

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

Material Notes:

LNP THERMOCOMP* NF002 is a compound based on PC+ABS resin containing 10% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-NF002-PCABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Moisture Absorption	0.130 %	0.130 %	50% RH, 24 hrs; ASTM D570
	0.210 %	0.210 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	78.0 MPa	11300 psi	Type I, 5 mm/min; ASTM D638
	78.0 MPa	11300 psi	5 mm/min; ISO 527
Tensile Strength, Yield	79.0 MPa	11500 psi	5 mm/min; ISO 527
	81.0 MPa	11700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.1 %	3.1 %	Type I, 5 mm/min; ASTM D638
	3.1 %	3.1 %	5 mm/min; ISO 527
Elongation at Yield	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D638
	2.9 %	2.9 %	5 mm/min; ISO 527
Tensile Modulus	4.41 GPa	640 ksi	1 mm/min; ISO 527
	4.81 GPa	698 ksi	50 mm/min; ASTM D638
Flexural Strength	106 MPa	15400 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Modulus Mechanical Properties	4.16 GPa Metric	603 ksi English	2 mm/min: ISO 178 Comments
	4.20 GPa	609 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.18 J/cm	2.21 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.94 J/cm	9.25 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	33.0 kJ/m ²	15.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	19.0 J @Temperature 23.0 Â°C	14.0 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	7.00 J	5.16 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.2 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	33.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	66.6 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	37.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	137 Â°C	279 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	138 Â°C @Thickness 3.20 mm	280 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	128 Â°C	262 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	130 Â°C @Thickness 3.20 mm	266 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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