

SABIC Innovative Plastics LNP THERMOCOMP IF003 PA 6/12

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

LNP THERMOCOMP* IF003 is a compound based on Nylon 6/12 resin containing 15% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-IF003-PA-612.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
	1.18 g/cc	0.0426 lb/in ³	ASTM D792
Moisture Absorption	0.220 %	0.220 %	50% RH, 24 hrs; ASTM D570
	0.260 %	0.260 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.011 cm/cm	0.010 - 0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	99.0 MPa	14400 psi	ISO 527
	100 MPa	14500 psi	ASTM D638
Elongation at Break	2.1 %	2.1 %	ISO 527
	2.6 %	2.6 %	ASTM D638
Tensile Modulus	5.43 GPa	788 ksi	1 mm/min; ISO 527
	5.53 GPa	802 ksi	50 mm/min; ASTM D638
Flexural Strength	156 MPa	22600 psi	ISO 178
	163 MPa	23600 psi	ASTM D790
Flexural Modulus	4.59 GPa	666 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.40 J/cm	4.50 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	22.0 kJ/m ²	10.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	Instrumented Impact Energy @ peak; 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	45.1 Åµm/m-Å°C	25.1 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	45.2 Åµm/m-Å°C	25.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	80.4 Åµm/m-Å°C	44.7 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	80.5 Åµm/m-Å°C	44.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	181 Å°C	358 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	191 Å°C	376 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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