

SABIC Innovative Plastics LNP THERMOCOMP IF006 PA 6/12

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

LNP THERMOCOMP* IF006 is a compound based on Nylon 6/12 resin containing 30% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-IF006-PA-612.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
	1.322 g/cc	0.04776 lb/in ³	ASTM D792
Moisture Absorption	0.170 %	0.170 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0011 - 0.0016 cm/cm	0.0011 - 0.0016 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0066 - 0.0071 cm/cm	0.0066 - 0.0071 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0080 cm/cm	0.0070 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	178 MPa	25800 psi	ISO 527
	182 MPa	26400 psi	ASTM D638
Elongation at Break	3.4 %	3.4 %	ISO 527
	3.7 %	3.7 %	ASTM D638
Tensile Modulus	9.58 GPa	1390 ksi	50 mm/min; ASTM D638
	10.32 GPa	1497 ksi	1 mm/min; ISO 527
Flexural Strength	250 MPa	36300 psi	ISO 178
	291 MPa	42200 psi	ASTM D790
Flexural Modulus	8.83 GPa	1280 ksi	ISO 178
	9.30 GPa	1350 ksi	ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	12.38 J/cm	23.19 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	14.0 kJ/mÂ²	6.66 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	78.0 kJ/mÂ²	37.1 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	14.0 J	10.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.5 Âµm/m-Â°C	22.5 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	40.5 Âµm/m-Â°C	22.5 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	73.0 Âµm/m-Â°C	40.6 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	73.1 Âµm/m-Â°C	40.6 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	213 Â°C	415 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	198 Â°C	388 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	HB	HB	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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