

SABIC Innovative Plastics LNP Thermocomp IF002 PA 6/12 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

LNP* Thermocomp* IF002 is a compound based on Nylon 6/12 resin containing Glass Fiber. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-IF002-PA-612-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D 792
	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.10 %	0.10 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.011 cm/cm	0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 - 0.015 cm/cm	0.013 - 0.015 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.014 cm/cm	0.014 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	74.0 MPa	10700 psi	ISO 527
	75.0 MPa	10900 psi	ASTM D 638
Elongation at Break	2.0 %	2.0 %	ASTM D 638
	2.8 %	2.8 %	ISO 527
Tensile Modulus	4.06 GPa	589 ksi	1 mm/min; ISO 527
	6.20 GPa	899 ksi	50 mm/min; ASTM D 638
Flexural Strength	103 MPa	14900 psi	ASTM D 790
	111 MPa	16100 psi	ISO 178
Flexural Modulus	3.44 GPa	499 ksi	ASTM D 790

Mechanical Properties	Metric 3.00 GPa	English 532 ksi	Comments ISO 178
Izod Impact, Notched	0.480 J/cm @Temperature 23.0 Â°C	0.899 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	2.77 J/cm @Temperature 23.0 Â°C	5.19 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ² @Temperature 23.0 Â°C	1.90 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	16.0 kJ/mÂ² @Temperature 23.0 Â°C	7.61 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	86.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	48.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	87.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	48.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	57.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	31.7 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	57.6 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	32.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	200 Â°C	392 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	194 Â°C @Thickness 3.20 mm	381 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	179 Â°C	354 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	188 Â°C @Thickness 3.20 mm	370 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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