

SABIC Innovative Plastics LNP THERMOCOMP IF006 PA6.12 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

LNP THERMOCOMP* IF006 is a compound based on nylon 6/12 resin containing glass fibre

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-IF006-PA612-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ISO 1183
Water Absorption	0.25 %	0.25 %	ISO 62-1
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	120 MPa	17400 psi	5 mm/min; ISO 527
Elongation at Break	2.1 %	2.1 %	5 mm/min; ISO 527
	4.2 %	4.2 %	
Tensile Modulus	7.80 GPa	1130 ksi	1 mm/min; ISO 527
Flexural Yield Strength	185 MPa	26800 psi	2 mm/min; ISO 178
Flexural Modulus	6.05 GPa	877 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	39.0 Åµm/m-Å°C	21.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
CTE, linear, Transverse to Flow	160 Åµm/m-Å°C	88.9 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	209 Å°C	408 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Deflection Temperature at 1.8 MPa
Thermal Properties
(104 psi)

188 Å°C
Metric

370 Å°F
English

Flatw 80*10*4 sp=64mm; ISO 75/Af
Comments

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