

SABIC Innovative Plastics LNP THERMOCOMP HF006EU PA11 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 11

Material Notes:

LNP* THERMOCOMP* HF006EU is a compound based on PA 11 resin containing Glass Fiber. Added features include: Easy Molding, UV-Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-HF006EU-PA11-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ISO 1183
Water Absorption	0.18 %	0.18 %	ISO 62-1
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	116 MPa	16800 psi	5 mm/min; ISO 527
Tensile Strength, Yield	117 MPa	17000 psi	5 mm/min; ISO 527
Elongation at Yield	6.0 %	6.0 %	5 mm/min; ISO 527
Tensile Modulus	7.10 GPa	1030 ksi	1 mm/min; ISO 527
Flexural Yield Strength	169 MPa	24500 psi	2 mm/min; ISO 178
Flexural Modulus	5.60 GPa	812 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	23.0 kJ/m ²	10.9 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	95.0 kJ/m ²	45.2 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	24.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	13.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	150 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	83.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	186 $\text{Å}^\circ\text{C}$	367 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Deflection Temperature at 1.8 MPa
(264 psi)
Thermal Properties

Metric C

English

Comments D+4 sp=64mm; ISO 75/Af

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