

SABIC Innovative Plastics LNP THERMOCOMP HB006 PA11

Category : Polymer , Thermoplastic , Nylon , Nylon 11

Material Notes:

LNP* Thermocomp* HB006 is a compound based on Nylon 11 resin containing 30% Glass Bead.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-HB006-PA11.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
	1.27 g/cc	0.0459 lb/in ³	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.017 cm/cm	0.017 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.017 cm/cm	0.017 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.015 cm/cm	0.015 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	41.0 MPa	5950 psi	ISO 527
	43.0 MPa	6240 psi	ASTM D638
Tensile Strength, Yield	45.0 MPa	6530 psi	ASTM D638
	46.0 MPa	6670 psi	ISO 527
Elongation at Break	20 %	20 %	ASTM D638
	43.2 %	43.2 %	ISO 527
Elongation at Yield	23.2 %	23.2 %	ASTM D638
	23.7 %	23.7 %	ISO 527
Tensile Modulus	1.96 GPa	284 ksi	50 mm/min; ASTM D638
	2.09 GPa	303 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	58.0 MPa	8410 psi	ISO 178
Flexural Modulus	1.92 GPa	278 ksi	ASTM D790
	3.00 GPa	435 ksi	ISO 178
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
Izod Impact, Unnotched	15.48 J/cm	29.00 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	165 kJ/m ²	78.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	33.0 J	24.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	151 Â°C	304 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	145 Â°C	293 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	47.0 Â°C	117 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	46.0 Â°C	115 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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