

SABIC Innovative Plastics LNP THERMOCOMP PF006 PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP THERMOCOMP* PF006 is a compound based on Nylon 6 resin containing 30% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PF006-PA-6.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183
	1.369 g/cc	0.04946 lb/in ³	ASTM D792
Moisture Absorption	0.860 %	0.860 %	50% RH, 24 hrs; ASTM D570
	1.53 %	1.53 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0017 - 0.0050 cm/cm	0.0017 - 0.0050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	128 MPa	18600 psi	ISO 527
	129 MPa	18700 psi	ASTM D638
Elongation at Break	2.8 %	2.8 %	ASTM D638
	2.9 %	2.9 %	ISO 527
Tensile Modulus	8.58 GPa	1240 ksi	1 mm/min; ISO 527
	8.75 GPa	1270 ksi	50 mm/min; ASTM D638
Flexural Strength	201 MPa	29200 psi	ASTM D790
	203 MPa	29400 psi	ISO 178
Flexural Modulus	6.96 GPa	1010 ksi	ASTM D790

Mechanical Properties	7.87 GPa Metric	1150 lbf English	ISO 178 Comments
Izod Impact, Notched	1.17 J/cm	2.19 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.27 J/cm	15.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	55.0 kJ/m ²	26.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.5 Åµm/m-Å°C	16.9 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	30.6 Åµm/m-Å°C	17.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	67.2 Åµm/m-Å°C	37.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	219 Å°C	426 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	203 Å°C	397 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	206 Å°C	403 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	HB	HB	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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