

SABIC Innovative Plastics LNP THERMOCOMP PF00A PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP THERMOCOMP* PF00A is a compound based on Nylon 6 resin containing 50% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PF00A-PA-6.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	ASTM D792
	1.57 g/cc	0.0567 lb/in ³	ISO 1183
Moisture Absorption	0.830 %	0.830 %	50% RH, 24 hrs; ASTM D570
	0.970 %	0.970 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	213 MPa	30900 psi	ASTM D638
	214 MPa	31000 psi	ISO 527
Elongation at Break	2.8 %	2.8 %	ASTM D638
	3.0 %	3.0 %	ISO 527
Tensile Modulus	17.09 GPa	2479 ksi	50 mm/min; ASTM D638
	17.25 GPa	2502 ksi	1 mm/min; ISO 527
Flexural Strength	318 MPa	46100 psi	ISO 178
	328 MPa	47600 psi	ASTM D790
Flexural Modulus	12.29 GPa	1783 ksi	ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	1.76 J/cm	3.30 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	18.0 kJ/m ²	8.57 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	94.0 kJ/m ²	44.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	18.0 J	13.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	22.0 J	16.2 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	198 Â°C	388 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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