

SABIC Innovative Plastics LNP THERMOCOMP PF009 PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP THERMOCOMP* PF009 is a compound based on Nylon 6 resin containing 45% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PF009-PA-6.php

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in ³	ASTM D792
	1.54 g/cc	0.0556 lb/in ³	ISO 1183
Moisture Absorption	0.870 %	0.870 %	50% RH, 24 hrs; ASTM D570
	1.07 %	1.07 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 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	192 MPa	27800 psi	ASTM D638
	201 MPa	29200 psi	ISO 527
Elongation at Break	3.2 %	3.2 %	ASTM D638
	3.4 %	3.4 %	ISO 527
Tensile Modulus	14.53 GPa	2107 ksi	50 mm/min; ASTM D638
	15.21 GPa	2206 ksi	1 mm/min; ISO 527
Flexural Strength	293 MPa	42500 psi	ASTM D790
	310 MPa	45000 psi	ISO 178
Flexural Modulus	10.55 GPa	1530 ksi	ASTM D790

Mechanical Properties	Metric 11.52 GPa	English 1687 ksi	Comments ISO 178
Izod Impact, Notched	1.54 J/cm	2.89 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	24.0 J	17.7 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	20.0 J	14.8 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	212 Â°C	414 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	200 Â°C @Thickness 3.20 mm	392 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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