

SABIC Innovative Plastics LNP THERMOCOMP RF004 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP THERMOCOMP* RF004 is a compound based on Nylon 66 resin containing 20% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF004-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
	1.295 g/cc	0.04678 lb/in ³	ASTM D792
Moisture Absorption	0.800 %	0.800 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0047 cm/cm	0.0047 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0124 cm/cm	0.0124 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	156 MPa	22600 psi	ASTM D638
	159 MPa	23100 psi	ISO 527
Elongation at Break	3.6 %	3.6 %	ASTM D638
	3.7 %	3.7 %	ISO 527
Tensile Modulus	7.17 GPa	1040 ksi	50 mm/min; ASTM D638
	7.30 GPa	1060 ksi	1 mm/min; ISO 527
Flexural Strength	230 MPa	33400 psi	ASTM D790
	241 MPa	35000 psi	ISO 178
Flexural Modulus	5.86 GPa	850 ksi	ASTM D790
	7.00 GPa	1020 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	8.33 J/cm	15.6 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)	56.0 kJ/m ²	26.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J	8.11 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.68	0.68	ASTM D3702 Modified
Coefficient of Friction, Static	0.52	0.52	ASTM D3702 Modified
K (wear) Factor	161 x 10 ⁻⁸ mm ³ /N-M	80.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	37.8 Åµm/m-Å°C	21.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	38.8 Åµm/m-Å°C	21.6 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	79.2 Åµm/m-Å°C	44.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	79.4 Åµm/m-Å°C	44.1 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)	260 Å°C	500 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	221 Å°C	430 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	247 Å°C	477 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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