

SABIC Innovative Plastics LNP THERMOCOMP RF00C PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP THERMOCOMP* RF00C is a compound based on Nylon 66 resin containing 60% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF00C-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.68 g/cc	1.68 g/cc	ASTM D792
Density	1.68 g/cc	0.0607 lb/in ³	ASTM D792
Moisture Absorption	0.420 %	0.420 %	50% RH, 24 hrs; ASTM D570
	0.600 %	0.600 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	247 MPa	35800 psi	Type I, 5 mm/min; ASTM D638
	250 MPa	36300 psi	5 mm/min; ISO 527
Elongation at Break	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
	2.2 %	2.2 %	5 mm/min; ISO 527
Tensile Modulus	20.36 GPa	2953 ksi	1 mm/min; ISO 527
	21.12 GPa	3063 ksi	5 mm/min; ASTM D638
Flexural Strength	377 MPa	54700 psi	ISO 178
	383 MPa	55500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	384 MPa	55700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	18.3 GPa	2650 ksi	1.3 mm/min, 50 mm span; ASTM D790
	18.48 GPa	2680 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.59 J/cm	2.98 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	76.0 kJ/m ²	36.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	12.0 J @Temperature 23.0 Â°C	8.85 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	22.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	21.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	11.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	260 Â°C	500 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	260 Â°C @Thickness 3.20 mm	500 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	254 Â°C	489 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	255 Â°C @Thickness 3.20 mm	491 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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