

SABIC Innovative Plastics LNP THERMOCOMP RF008 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RF-1008 is a compound based on Nylon 66 resin containing Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF008-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
Moisture Absorption	0.660 %	0.660 %	50% RH, 24 hrs; ASTM D570
	1.00 %	1.00 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Time 86400 sec	0.0020 - 0.0040 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm @Time 86400 sec	0.010 - 0.030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	210 MPa	30500 psi	Type I, 5 mm/min; ASTM D638
	232 MPa	33600 psi	5 mm/min; ISO 527
Tensile Strength, Yield	230 MPa	33400 psi	Type I, 5 mm/min; ASTM D638
	232 MPa	33600 psi	5 mm/min; ISO 527
Elongation at Break	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D638
	2.9 %	2.9 %	5 mm/min; ISO 527
Elongation at Yield	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
	2.9 %	2.9 %	5 mm/min; ISO 527
Tensile Modulus	13.9 GPa	2020 ksi	5 mm/min; ASTM D638
	14.06 GPa	2039 ksi	1 mm/min; ISO 527
Flexural Strength	229 MPa	33200 psi	ISO 178
	337 MPa	48900 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Yield Strength Mechanical Properties	338 MPa Metric	49000 psi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Flexural Modulus	11.17 GPa	1620 ksi	2 mm/min; ISO 178
	12.4 GPa	1800 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.66 J/cm	3.11 ft-lb/in	ASTM D256
Izod Impact, Unnotched	13.2 J/cm	24.7 ft-lb/in	ASTM D4812
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)	86.0 kJ/m ²	40.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	18.0 J @Temperature 23.0 Â°C	13.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	32.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	17.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	62.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	34.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	259 Â°C	498 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)	244 Â°C	471 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	253 Â°C @Thickness 3.20 mm	487 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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