

SABIC Innovative Plastics LNP THERMOCOMP RF008 PA 66 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP Thermocomp RF008 is a compound based on PA66 resin containing glass fiber. It is used in many applications requiring high strength over weight performance. Also known as Thermocomp RF-1008

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ISO 1183
	1.48 g/cc	0.0535 lb/in ³	ASTM D792
Moisture Absorption	0.600 %	0.600 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	185 MPa	26800 psi	Type I, 5 mm/min; ASTM D638
	188 MPa	27300 psi	5 mm/min; ISO 527
Elongation at Break	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
	2.7 %	2.7 %	5 mm/min; ISO 527
Tensile Modulus	12.2 GPa	1770 ksi	1 mm/min; ISO 527
	13.3 GPa	1930 ksi	50 mm/min; ASTM D638
Flexural Strength	275 MPa	39900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	10.4 GPa	1510 ksi	1.3 mm/min, 50 mm span; ASTM D790
	12.1 GPa	1750 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.17 J/cm	2.19 ft-lb/in	ASTM D256
Izod Impact, Unnotched	11.2 J/cm	21.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1A

Izod Impact, Unnotched (ISO)		74.0 kJ/m ²	35.2 ft-lb/in ²	80*10*4 ISO 180/1U
Mechanical Properties		Metric	English	Comments
Thermal Properties		Metric	English	Comments
CTE, linear, Parallel to Flow		26.8 Åµm/m-Å°C	14.9 Åµin/in-Å°F	ISO 11359-2
		@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
		27.0 Åµm/m-Å°C	15.0 Åµin/in-Å°F	ASTM E 831
		@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow		59.2 Åµm/m-Å°C	32.9 Åµin/in-Å°F	ISO 11359-2
		@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
		59.4 Åµm/m-Å°C	33.0 Åµin/in-Å°F	ASTM E 831
		@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)		240 Å°C	464 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
		253 Å°C	487 Å°F	
		@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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