

SABIC Innovative Plastics LNP THERMOCOMP RF00BS PA 66 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Thermocomp* RF00BS is a compound based on Nylon 66 resin containing Glass Fiber. Added features of this material include: Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF00BS-PA-66-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.72 g/cc	0.0621 lb/in ³	ASTM D792
	1.72 g/cc	0.0621 lb/in ³	ISO 1183
Moisture Absorption	0.300 %	0.300 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0029 cm/cm	0.0029 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0044 cm/cm	0.0044 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	253 MPa	36700 psi	ASTM D638
	253 MPa	36700 psi	ISO 527
Tensile Strength, Yield	253 MPa	36700 psi	ASTM D638
	253 MPa	36700 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
	2.2 %	2.2 %	ASTM D638
Elongation at Yield	2.0 %	2.0 %	ISO 527
	2.2 %	2.2 %	ASTM D638
Tensile Modulus	21.36 GPa	3098 ksi	1 mm/min; ISO 527

Mechanical Properties	21.37 GPa Metric	3099 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	358 MPa	51900 psi	ASTM D790
	375 MPa	54400 psi	ISO 178
Flexural Modulus	19.3 GPa	2800 ksi	ASTM D790
	20.0 GPa	2900 ksi	ISO 178
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256
Izod Impact, Unnotched	12.28 J/cm	23.01 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	19.0 kJ/m ²	9.04 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	10.0 J	7.38 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	37.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	21.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	38.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	21.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	16.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	8.89 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	16.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	9.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	260 $\text{Å}^\circ\text{C}$	500 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	260 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	500 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	254 $\text{Å}^\circ\text{C}$	489 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	255 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	491 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	

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