

SABIC Innovative Plastics LNP THERMOCOMP RF00AS PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP THERMOCOMP* RF00AS is a compound based on Nylon 66 resin containing 50% 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-RF00AS-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ISO 1183
	1.573 g/cc	0.05683 lb/in ³	ASTM D792
Moisture Absorption	0.400 %	0.400 %	50% RH, 24 hrs; ASTM D570
	0.740 %	0.740 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0034 cm/cm	0.0034 in/in	ISO 294
	@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	
	0.0121 cm/cm	0.0121 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	194 MPa	28100 psi	ISO 527
	197 MPa	28600 psi	ASTM D638
Elongation at Break	2.4 %	2.4 %	ASTM D638
	2.4 %	2.4 %	ISO 527
Tensile Modulus	14.0 GPa	2030 ksi	1 mm/min; ISO 527
	17.65 GPa	2560 ksi	50 mm/min; ASTM D638
Flexural Strength	300 MPa	43500 psi	ISO 178
	312 MPa	45300 psi	ASTM D790

Flexural Modulus Mechanical Properties	12.54 GPa Metric	1819 ksi English	ASTM D790 Comments
	14.5 GPa	2100 ksi	ISO 178
Izod Impact, Notched	1.49 J/cm	2.79 ft-lb/in	ASTM D256
Izod Impact, Unnotched	15.85 J/cm	29.69 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)	65.0 kJ/m ²	30.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	12.0 J	8.85 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	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	
	28.1 Åµm/m-Å°C	15.6 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	43.2 Åµm/m-Å°C	24.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	44.2 Åµm/m-Å°C	24.6 Åµin/in-Å°F	ISO 11359-2
	@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
	252 Å°C	486 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	HB	HB	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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