

SABIC Innovative Plastics LNP Thermocomp RF00CS PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Thermocomp* RF00CS is a compound based on Nylon 66 resin containing Glass Fiber. Added features of this material include: Heat Stabilized. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-RF00CS-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.72 g/cc	0.0621 lb/in ³	ASTM D 792
	1.72 g/cc	0.0621 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.30 %	0.30 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0029 cm/cm	0.0029 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 cm/cm	0.0030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	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 D 638
	253 MPa	36700 psi	ISO 527
Tensile Strength, Yield	253 MPa	36700 psi	ASTM D 638
	253 MPa	36700 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
	2.2 %	2.2 %	ASTM D 638
Elongation at Yield	2.0 %	2.0 %	ISO 527
	2.2 %	2.2 %	ASTM D 638
Tensile Modulus	21.36 GPa	3098 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric 21.37 GPa	English 3099 ksi	Comments 50 mm/min; ASTM D 638
Flexural Strength	358 MPa	51900 psi	ASTM D 790
	375 MPa	54400 psi	ISO 178
Flexural Modulus	19.3 GPa	2800 ksi	ASTM D 790
	20.0 GPa	2900 ksi	ISO 178
Izod Impact, Notched	1.60 J/cm @Temperature 23.0 Â°C	3.00 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	12.28 J/cm @Temperature 23.0 Â°C	23.01 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	19.0 kJ/mÂ² @Temperature 23.0 Â°C	9.04 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	76.0 kJ/mÂ² @Temperature 23.0 Â°C	36.2 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	10.0 J @Temperature 23.0 Â°C	7.38 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	37.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	21.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	38.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	21.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	16.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	8.89 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	16.2 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	9.00 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	260 Â°C	500 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
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	491 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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