

SABIC Innovative Plastics LNP THERMOCOMP RF009S PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RF009S is a compound based on Nylon 66 resin containing 45% 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-RF009S-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.54 g/cc	1.54 g/cc	ASTM D792
Density	1.53 g/cc	0.0553 lb/in ³	ASTM D792
Moisture Absorption	0.540 %	0.540 %	50% RH, 24 hrs; ASTM D570
	0.770 %	0.770 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.040 cm/cm	0.010 - 0.040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	211 MPa	30600 psi	Type I, 5 mm/min; ASTM D638
	214 MPa	31000 psi	5 mm/min; ISO 527
Elongation at Break	2.8 %	2.8 %	5 mm/min; ISO 527
	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	13.95 GPa	2023 ksi	1 mm/min; ISO 527
	14.14 GPa	2051 ksi	5 mm/min; ASTM D638
Flexural Strength	307 MPa	44500 psi	ISO 178
	337 MPa	48900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	12.01 GPa	1742 ksi	2 mm/min; ISO 178
	13.5 GPa	1960 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.70 J/cm	3.18 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	13.1 J/cm Metric	24.5 ft-lb/in English	ASTM D4812 Comments
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)	82.0 kJ/m ²	39.0 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J @Temperature 23.0 Â°C	8.11 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	26.0 Âµm/m-Â°C	14.4 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
CTE, linear, Transverse to Flow	56.0 Âµm/m-Â°C	31.1 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	259 Â°C	498 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	261 Â°C @Thickness 3.20 mm	502 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	247 Â°C	477 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	254 Â°C @Thickness 3.20 mm	489 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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