

## SABIC Innovative Plastics LNP THERMOCOMP RF002XXH PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP THERMOCOMP® RF002XXH is a compound based on Nylon 66 resin containing 10% Glass Fiber. Added feature of this material includes: Healthcare.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF002XXH-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF002XXH-PA-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.19 g/cc	0.0430 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.940 %	0.940 %	50% RH, 24 hrs; ASTM D570
	1.60 %	1.60 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	87.0 MPa	12600 psi	Type I, 5 mm/min; ASTM D638
	102 MPa	14800 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
	2.5 %	2.5 %	5 mm/min; ISO 527
Tensile Modulus	4.97 GPa	721 ksi	5 mm/min; ASTM D638
	5.08 GPa	737 ksi	1 mm/min; ISO 527
Flexural Strength	153 MPa	22200 psi	ISO 178
	158 MPa	22900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.29 GPa	622 ksi	2 mm/min; ISO 178
	4.62 GPa	670 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.0300 J/cm	0.0562 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	3.45 J/cm Metric	6.46 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	38.0 kJ/m <sup>2</sup>	18.1 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	22.0 kJ/m <sup>2</sup>	10.5 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J @Temperature 23.0 Â°C	2.95 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	58.0 Âµm/m-Â°C	32.2 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	81.0 Âµm/m-Â°C	45.0 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)	251 Â°C	484 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	256 Â°C @Thickness 3.20 mm	493 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	229 Â°C	444 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	239 Â°C @Thickness 3.20 mm	462 Â°F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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