

## SABIC Innovative Plastics LNP THERMOCOMP RF003AXH PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP\* THERMOCOMP\* RF003AXH is a compound based on Nylon 66 containing 15% 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-RF003AXH-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF003AXH-PA-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Density	1.25 g/cc	0.0452 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.740 %	0.740 %	50% RH, 24 hrs; ASTM D570
	1.10 %	1.10 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 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	107 MPa	15500 psi	5 mm/min; ISO 527
	109 MPa	15800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.2 %	2.2 %	5 mm/min; ISO 527
	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	6.14 GPa	891 ksi	5 mm/min; ASTM D638
	6.40 GPa	928 ksi	1 mm/min; ISO 527
Flexural Strength	169 MPa	24500 psi	ISO 178
	173 MPa	25100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	5.05 GPa	732 ksi	2 mm/min; ISO 178
	5.47 GPa	793 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.390 J/cm	0.731 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	3.81 J/cm Metric	7.14 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	3.00 kJ/m <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	23.0 kJ/m <sup>2</sup>	10.9 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 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	47.0 Âµm/m-Â°C	26.1 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	78.0 Âµm/m-Â°C	43.3 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)	232 Â°C	450 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	248 Â°C @Thickness 3.20 mm	478 Â°F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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