

## SABIC Innovative Plastics LNP THERMOCOMP RF002SXS PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP\* THERMOCOMP\* RF002SXS is a compound based on Nylon 66 resin containing 10% Glass Fiber. Characteristics of this grade are: Heat Stabilized.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF002SXS-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF002SXS-PA-66.php)

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in <sup>3</sup>	ASTM D792
	1.22 g/cc	0.0441 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.860 %	0.860 %	50% RH, 24 hrs; ASTM D570
	1.20 %	1.20 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0090 - 0.020 cm/cm	0.0090 - 0.020 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	5 mm/min; ISO 527
	95.0 MPa	13800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.8 %	1.8 %	5 mm/min; ISO 527
	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	5.43 GPa	788 ksi	1 mm/min; ISO 527
	5.44 GPa	789 ksi	50 mm/min; ASTM D638
Flexural Strength	135 MPa	19600 psi	ISO 178
	147 MPa	21300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	144 MPa	20900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.34 GPa	629 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.48 GPa	650 ksi	2 mm/min; ISO 178

<b>Mechanical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Izod Impact, Unnotched	2.85 J/cm	5.34 ft-lb/in	ASTM D4812
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)	21.0 kJ/m <sup>2</sup>	9.99 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
CTE, linear, Parallel to Flow	41.0 Âµm/m-Â°C	22.8 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	82.0 Âµm/m-Â°C	45.6 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)	252 Â°C	486 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)	221 Â°C	430 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	238 Â°C @Thickness 3.20 mm	460 Â°F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China