

## SABIC Innovative Plastics LNP THERMOCOMP RX93402 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP THERMOCOMP® RX93402 is a compound based on Nylon 66 resin containing Glass Fiber. Added features of this material include:  
Flame Retardant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RX93402-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RX93402-PA-66.php)

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.400 %	0.400 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0089 cm/cm	0.0089 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0090 cm/cm	0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0129 cm/cm	0.0129 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.013 cm/cm	0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	98.0 MPa	14200 psi	ISO 527
	99.0 MPa	14400 psi	ASTM D638
Elongation at Break	2.9 %	2.9 %	ISO 527
	3.0 %	3.0 %	ASTM D638
Tensile Modulus	6.06 GPa	879 ksi	50 mm/min; ASTM D638
	6.30 GPa	914 ksi	1 mm/min; ISO 527
Flexural Strength	158 MPa	22900 psi	ASTM D790
	165 MPa	23900 psi	ISO 178
Flexural Modulus	5.17 GPa	750 ksi	ASTM D790
	6.00 GPa	870 ksi	ISO 178

Izod Impact, Notched Mechanical Properties	0.420 J/cm Metric	0.787 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	5.34 J/cm	10.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	38.0 kJ/mÂ²	18.1 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	251 Â°C @Thickness 3.20 mm	484 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	219 Â°C @Thickness 3.20 mm	426 Â°F @Thickness 0.126 in	Flatw 80*10*4 sp=64mm; ISO 75/Af unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	UL 94 by SABIC-IP

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