

## SABIC Innovative Plastics LNP THERMOCOMP RF002ES PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP THERMOCOMP\* RF002ES is a compound based on Nylon 66 resin containing 10% Glass Fiber. Added features of this material include: Easy Molding, Heat Stabilized.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF002ES-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF002ES-PA-66.php)

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in <sup>3</sup>	ISO 1183
	1.224 g/cc	0.04422 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	1.26 %	1.26 %	50% RH, 24 hrs; ASTM D570
	1.94 %	1.94 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0077 cm/cm	0.0077 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	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	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	87.0 MPa	12600 psi	ASTM D638
	90.0 MPa	13100 psi	ISO 527
Elongation at Break	2.3 %	2.3 %	ISO 527
	2.5 %	2.5 %	ASTM D638
Elongation at Yield	2.3 %	2.3 %	ISO 527
Tensile Modulus	4.85 GPa	703 ksi	50 mm/min; ASTM D638
	5.12 GPa	743 ksi	1 mm/min; ISO 527
Flexural Strength	131 MPa	19000 psi	ISO 178

Mechanical Properties	156 MPa Metric	22600 psi English	ASTM D790 Comments
Flexural Modulus	4.28 GPa	621 ksi	ISO 178
	4.61 GPa	669 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.99 J/cm	5.60 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	4.00 J	2.95 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	175 Â°C	347 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	172 Â°C	342 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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