

## SABIC Innovative Plastics LNP THERMOCOMP RF003H PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP\* THERMOCOMP\* RF003H is a compound based on Nylon 66 containing 15% Glass Fiber. Added feature of this grade is: Healthcare.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF003H-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF003H-PA-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Density	1.22 g/cc	0.0441 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	1.10 %	1.10 %	50% RH, 24 hrs; ASTM D570
	1.60 %	1.60 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 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	97.0 MPa	14100 psi	5 mm/min; ISO 527
	103 MPa	14900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.3 %	2.3 %	5 mm/min; ISO 527
	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	5.12 GPa	743 ksi	5 mm/min; ASTM D638
	5.16 GPa	748 ksi	1 mm/min; ISO 527
Flexural Strength	156 MPa	22600 psi	ISO 178
	171 MPa	24800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.95 GPa	573 ksi	2 mm/min; ISO 178
	4.51 GPa	654 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.570 J/cm	1.07 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.37 J/cm	8.19 ft-lb/in	ASTM D4812

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	27.0 kJ/m <sup>2</sup>	12.8 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	53.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	29.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	80.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	44.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	248 Â°C	478 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)	212 Â°C	414 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	240 Â°C @Thickness 3.20 mm	464 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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