

## SABIC Innovative Plastics LNP THERMOCOMP RF005 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP\* THERMOCOMP\* RF005 is a compound based on Nylon 66 resin containing 25% Glass Fiber.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF005-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF005-PA-66.php)

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	132 MPa	19100 psi	ASTM D638
	139 MPa	20200 psi	ISO 527
Elongation at Break	1.9 %	1.9 %	ASTM D638
	2.0 %	2.0 %	ISO 527
Tensile Modulus	8.30 GPa	1200 ksi	1 mm/min; ISO 527
	9.10 GPa	1320 ksi	50 mm/min; ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
	205 MPa	29700 psi	ISO 178
Flexural Modulus	7.23 GPa	1050 ksi	ASTM D790
	8.30 GPa	1200 ksi	ISO 178
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.80 J/cm	8.99 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	33.0 kJ/m <sup>2</sup>	15.7 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J	5.16 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

<b>Mechanical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Deflection Temperature at 0.46 MPa (66 psi)	258 Å°C @Thickness 3.20 mm	496 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	224 Å°C	435 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	245 Å°C @Thickness 3.20 mm	473 Å°F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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