

## SABIC Innovative Plastics LNP THERMOCOMP RC006 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP\* THERMOCOMP\* RC006 is a compound based on Nylon 66 resin containing 30% Carbon Fiber. Added features of this material include:  
Electrically Conductive.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RC006-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RC006-PA-66.php)

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in <sup>3</sup>	ISO 1183
	1.28 g/cc	0.0462 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.600 %	0.600 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.00080 cm/cm	0.00080 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0010 cm/cm	0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0056 cm/cm	0.0056 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	266 MPa	38600 psi	ASTM D638
	271 MPa	39300 psi	ISO 527
Elongation at Break	1.7 %	1.7 %	ASTM D638
	1.9 %	1.9 %	ISO 527
Tensile Modulus	22.65 GPa	3285 ksi	1 mm/min; ISO 527
	27.78 GPa	4029 ksi	50 mm/min; ASTM D638
Flexural Strength	406 MPa	58900 psi	ASTM D790
	412 MPa	59800 psi	ISO 178
Flexural Modulus	18.75 GPa	2719 ksi	ASTM D790

Mechanical Properties	21.02 GPa Metric	3049 ksi English	ISO 178 Comments
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.14 J/cm	19.00 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	68.0 kJ/m <sup>2</sup>	32.4 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.46	0.46	ASTM D3702 Modified
Coefficient of Friction, Static	0.36	0.36	ASTM D3702 Modified
K (wear) Factor	40.3 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	20.0 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.8 Åµm/m-Å°C	6.00 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	11.5 Åµm/m-Å°C	6.39 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	48.6 Åµm/m-Å°C	27.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	48.6 Åµm/m-Å°C	27.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	261 Å°C @Thickness 3.20 mm	502 Å°F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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