

## SABIC Innovative Plastics LNP THERMOCOMP IB008 PA 6/12 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 612

**Material Notes:**

LNP\* Thermocomp\* IB008 is a compound based on Nylon 6/12 resin containing Glass Bead.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-IB008-PA-612-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-IB008-PA-612-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.014 - 0.018 cm/cm	0.014 - 0.018 in/in	on Tensile Bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	74.0 MPa	10700 psi	5 mm/min; ISO 527
Elongation at Break	3.6 %	3.6 %	5 mm/min; ISO 527
Flexural Strength	103 MPa	14900 psi	2 mm/min; ISO 178
Flexural Modulus	3.90 GPa	566 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	15.0 kJ/m <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	83.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	46.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	79.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	43.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	87.0 $\text{Å}^\circ\text{C}$	189 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af

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