

## SABIC Innovative Plastics LNP Thermocomp FF001 PE (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyethylene (PE)

**Material Notes:**

LNP\* THERMOCOMP\* FF001 is a compound based on Polyethylene resin containing Glass Fiber. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-Thermocomp-FF001-PE-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-FF001-PE-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.00 %	0.00 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.0 MPa	4060 psi	5 mm/min; ISO 527
Elongation at Yield	3.6 %	3.6 %	5 mm/min; ISO 527
Tensile Modulus	1.70 GPa	247 ksi	1 mm/min; ISO 527
Flexural Yield Strength	36.0 MPa	5220 psi	2 mm/min; ISO 178
Flexural Modulus	1.50 GPa	218 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup> @Temperature 23.0 <sup>o</sup> C	2.38 ft-lb/in <sup>2</sup> @Temperature 73.4 <sup>o</sup> F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/m <sup>2</sup> @Temperature 23.0 <sup>o</sup> C	11.9 ft-lb/in <sup>2</sup> @Temperature 73.4 <sup>o</sup> F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	62.0 <sup>o</sup> C	144 <sup>o</sup> F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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