

## SABIC Innovative Plastics LNP Thermocomp FF004 PE (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyethylene (PE)

### Material Notes:

LNP\* THERMOCOMP\* FF004 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-FF004-PE-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-FF004-PE-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.010 % @Temperature 23.0 °C, Time 86400 sec	0.010 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.014 cm/cm	0.014 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	46.0 MPa	6670 psi	5 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	5 mm/min; ISO 527
Tensile Modulus	3.50 GPa	508 ksi	1 mm/min; ISO 527
Flexural Yield Strength	60.0 MPa	8700 psi	2 mm/min; ISO 178
Flexural Modulus	3.10 GPa	450 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	5.23 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	35.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	16.7 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.0 µm/m-°C @Temperature 23.0 - 60.0 °C	25.0 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	162 µm/m-°C @Temperature 23.0 - 60.0 °C	90.0 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2

Deflection Temperature at 1.8 MPa Thermal Properties (104 psi)	88.0 °C Metric	190 °F English	Flat: 80x10x4 sp=64mm; ISO 75/Af Comments
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