

## SABIC Innovative Plastics LNP Thermocomp OC004 PPS - Linear (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

### Material Notes:

LNP\* THERMOCOMP\* OC004 is a compound based on PPS-Linear resin containing Carbon Fiber. Added features include : Electrically Conductive. 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-OC004-PPS-Linear-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-OC004-PPS-Linear-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.040 %	0.040 %	ISO 62-1
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0015 cm/cm	0.0015 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	144 MPa	20900 psi	5 mm/min; ISO 527
Elongation at Break	1.1 %	1.1 %	5 mm/min; ISO 527
	1.5 %	1.5 %	Flexural Strain, 2 mm/min; ISO 178
Tensile Modulus	16.6 GPa	2410 ksi	1 mm/min; ISO 527
Flexural Strength	193 MPa	28000 psi	2 mm/min; ISO 178
Flexural Yield Strength	194 MPa	28100 psi	2 mm/min; ISO 178
Flexural Modulus	15.1 GPa	2190 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup>  @Temperature 23.0 °C	2.38 ft-lb/in <sup>2</sup>  @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/m <sup>2</sup>  @Temperature 23.0 °C	11.9 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	13.0 Âµm/m-Â°C	7.22 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 -	@Temperature 73.4 -	

Thermal Properties	60.0 Â°C Metric	140 Â°F English	Comments
CTE, linear, Transverse to Flow	55.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	30.6 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	275 Â°C	527 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	235 Â°C	455 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 1000 ohm	10 - 1000 ohm	ASTM D 257

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