

## SABIC Innovative Plastics LNP Thermocomp 9X04488 POLYPHENYLENESULFONE

Category : Polymer , Thermoplastic , Polyphenylsulfone (PPSU)

### Material Notes:

LNP\* Thermocomp\* 9X04488 is a compound based on POLYPHENYLENESULFONE resin containing Mineral. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-Thermocomp-9X04488-POLYPHENYLENESULFONE.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-9X04488-POLYPHENYLENESULFONE.php)

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in <sup>3</sup>	ASTM D 792
	1.31 g/cc	0.0473 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.30 %	0.30 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	59.0 MPa	8560 psi	ASTM D 638
Tensile Strength, Yield	69.0 MPa	10000 psi	ISO 527
	74.0 MPa	10700 psi	ASTM D 638
Elongation at Break	19.2 %	19.2 %	ASTM D 638
Elongation at Yield	7.7 %	7.7 %	ISO 527
	8.2 %	8.2 %	ASTM D 638
Tensile Modulus	2.12 GPa	307 ksi	1 mm/min; ISO 527
	2.28 GPa	331 ksi	50 mm/min; ASTM D 638

Mechanical Properties	Metric Pa	English psi	Comments
	96.0 MPa	13900 psi	ASTM D 790
Flexural Modulus	2.09 GPa	303 ksi	ISO 178
	2.46 GPa	357 ksi	ASTM D 790
Izod Impact, Notched	3.63 J/cm @Temperature 23.0 Â°C	6.80 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	25.63 J/cm @Temperature 23.0 Â°C	48.02 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	14.0 kJ/mÂ² @Temperature 23.0 Â°C	6.66 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	59.0 J	43.5 ft-lb	Multiaxial Impact; ISO 6603
	51.0 J @Temperature 23.0 Â°C	37.6 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	53.3 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	29.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	54.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	30.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	52.2 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	29.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	52.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	29.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	195 Â°C	383 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	200 Å°C Metric	392 Å°F English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	UPONOLON, ASTM D 648

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China