

## SABIC Innovative Plastics LNP Thermocomp OF002A PPS

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

### Material Notes:

LNP\* Thermocomp\* OF002A is a compound based on Polyphenylene Sulfide resin containing Glass Fiber. 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-OF002A-PPS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-OF002A-PPS.php)

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in <sup>3</sup>	ISO 1183
	1.42 g/cc	0.0513 lb/in <sup>3</sup>	ASTM D 792
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	
	0.010 cm/cm	0.010 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.010 cm/cm	0.010 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	ASTM D 638
	49.0 MPa	7110 psi	ISO 527
Tensile Strength, Yield	48.0 MPa	6960 psi	ASTM D 638
	49.0 MPa	7110 psi	ISO 527
Elongation at Break	0.60 %	0.60 %	ASTM D 638
	0.60 %	0.60 %	ISO 527
Elongation at Yield	0.60 %	0.60 %	ASTM D 638
	0.60 %	0.60 %	ISO 527
Tensile Modulus	7.15 GPa	1040 ksi	1 mm/min; ISO 527
	7.41 GPa	1070 ksi	50 mm/min; ASTM D 638

Flexural Strength Mechanical Properties	82.0 MPa Metric	11900 psi English	ASTM D 790 Comments
	98.0 MPa	14200 psi	ISO 178
Flexural Modulus	6.20 GPa	899 ksi	ASTM D 790
	6.40 GPa	928 ksi	ISO 178
Izod Impact, Notched	0.320 J/cm @Temperature 23.0 Â°C	0.599 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	0.900 J/cm @Temperature 23.0 Â°C	1.69 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	3.00 kJ/mÂ² @Temperature 23.0 Â°C	1.43 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	6.00 kJ/mÂ² @Temperature 23.0 Â°C	2.86 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	272 Â°C	522 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	271 Â°C @Thickness 3.20 mm	520 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	228 Â°C	442 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	235 Â°C @Thickness 3.20 mm	455 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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