

## SABIC Innovative Plastics LNP Thermocomp OB008 PPS - Branched

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

### Material Notes:

LNP\* Thermocomp\* OB008 is a compound based on Branched PPS containing Glass Beads. 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-OB008-PPS-Branched.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-OB008-PPS-Branched.php)

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/in <sup>3</sup>	ISO 1183
	1.635 g/cc	0.05907 lb/in <sup>3</sup>	ASTM D 792
Moisture Absorption at Equilibrium	0.010 %	0.010 %	23 <sup>o</sup> C / 50% RH; ISO 62
	0.010 % @Time 86400 sec	0.010 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0092 - 0.0094 cm/cm	0.0092 - 0.0094 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0092 - 0.0094 cm/cm	0.0092 - 0.0094 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	Type I, 5 mm/min; ASTM D 638
	46.0 MPa	6670 psi	5 mm/min; ISO 527
Tensile Strength, Yield	40.0 MPa	5800 psi	Type I, 5 mm/min; ASTM D 638
	47.0 MPa	6820 psi	5 mm/min; ISO 527
Elongation at Break	1.3 %	1.3 %	5 mm/min; ISO 527
	1.7 %	1.7 %	Flexural Strain, 2 mm/min; ISO 178
	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	1.0 %	1.0 %	5 mm/min; ISO 527
	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	6.33 GPa	918 ksi	1 mm/min; ISO 527
	6.63 GPa	962 ksi	50 mm/min; ASTM D 638

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	87.0 MPa	12600 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	5.92 GPa	859 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	6.17 GPa	895 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.310 J/cm @Temperature 23.0 Â°C	0.581 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	1.47 J/cm @Temperature 23.0 Â°C	2.75 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)	9.00 kJ/mÂ² @Temperature 23.0 Â°C	4.28 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
CTE, linear, Parallel to Flow	43.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	23.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	41.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	23.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	202 Â°C	396 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	218 Â°C @Thickness 3.20 mm	424 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	121 Â°C	250 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	115 Â°C @Thickness 3.20 mm	239 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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