

## SABIC Innovative Plastics LNP THERMOCOMP MB008S PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

LNP\* THERMOCOMP\* MB008S is a compound based on Polypropylene resin containing 40% Glass Bead. Added features of this material include: Heat Stabilized.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-MB008S-PP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-MB008S-PP.php)

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in <sup>3</sup>	ISO 1183
	1.22 g/cc	0.0441 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage, Flow	0.012 - 0.014 cm/cm	0.012 - 0.014 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.013 cm/cm	0.013 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 - 0.015 cm/cm	0.013 - 0.015 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.014 cm/cm	0.014 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	15.0 MPa	2180 psi	ASTM D638
	15.0 MPa	2180 psi	ISO 527
Tensile Strength, Yield	19.0 MPa	2760 psi	ASTM D638
	19.0 MPa	2760 psi	ISO 527
Elongation at Break	43.8 %	43.8 %	ISO 527
	160 %	160 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
	6.1 %	6.1 %	ISO 527
Tensile Modulus	1.66 GPa	241 ksi	1 mm/min; ISO 527
	2.06 GPa	299 ksi	50 mm/min; ASTM D638

Flexural Strength Mechanical Properties	27.0 MPa Metric	3920 psi English	ASTM D790 Comments
	36.0 MPa	5220 psi	ISO 178
Flexural Modulus	2.06 GPa	299 ksi	ASTM D790
	2.20 GPa	319 ksi	ISO 178
Izod Impact, Notched	0.260 J/cm	0.487 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.61 J/cm	4.89 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	2.00 kJ/m <sup>2</sup>	0.952 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	15.0 kJ/m <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	7.20 Åµm/m-Å°C	4.00 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	76.7 Åµm/m-Å°C	42.6 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	7.20 Åµm/m-Å°C	4.00 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	66.4 Åµm/m-Å°C	36.9 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	103 Å°C	217 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	102 Å°C @Thickness 3.20 mm	216 Å°F @Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	61.0 Å°C	142 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	60.0 Å°C @Thickness 3.20 mm	140 Å°F @Thickness 0.126 in	

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