

SABIC Innovative Plastics LNP Thermocomp MB008S PP (Asia Pacific)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* Thermocomp* MB008S is a compound based on Polypropylene resin containing Glass Bead. Added features of this material include: Heat Stabilized. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-MB008S-PP-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ISO 1183
	1.22 g/cc	0.0441 lb/in ³	ASTM D 792
Linear Mold Shrinkage, Flow	0.012 - 0.014 cm/cm	0.012 - 0.014 in/in	ASTM D 955
	@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 D 955
	@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 D 638
	15.0 MPa	2180 psi	ISO 527
Tensile Strength, Yield	19.0 MPa	2760 psi	ASTM D 638
	19.0 MPa	2760 psi	ISO 527
Elongation at Break	43.8 %	43.8 %	ISO 527
	160 %	160 %	ASTM D 638
Elongation at Yield	6.0 %	6.0 %	ASTM D 638
	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 D 638

Flexural Strength Mechanical Properties	27.0 MPa Metric	3920 psi English	ASTM D 790 Comments
	36.0 MPa	5220 psi	ISO 178
Flexural Modulus	2.06 GPa	299 ksi	ASTM D 790
	2.20 GPa	319 ksi	ISO 178
Izod Impact, Notched	0.260 J/cm @Temperature 23.0 Â°C	0.487 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	2.61 J/cm @Temperature 23.0 Â°C	4.89 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	2.00 kJ/mÂ² @Temperature 23.0 Â°C	0.952 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	15.0 kJ/mÂ² @Temperature 23.0 Â°C	7.14 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
	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	7.20 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	4.00 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	76.7 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	42.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	7.20 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	4.00 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	66.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	36.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	103 Â°C	217 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Thermal Properties	102 Â°C Metric	216 Â°F English	Comments ; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	61.0 Â°C	142 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	60.0 Â°C	140 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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