

SABIC Innovative Plastics LNP THERMOCOMP MB006S PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP THERMOCOMP* MB006S is a compound based on Polypropylene resin containing 30% 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-MB006S-PP.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
	1.12 g/cc	0.0405 lb/in ³	ASTM D792
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0116 cm/cm	0.0116 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.012 cm/cm	0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0115 cm/cm	0.0115 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	19.0 MPa	2760 psi	ASTM D638
	19.0 MPa	2760 psi	ISO 527
Tensile Strength, Yield	24.0 MPa	3480 psi	ASTM D638
	24.0 MPa	3480 psi	ISO 527
Elongation at Break	83.4 %	83.4 %	ISO 527
	87.5 %	87.5 %	ASTM D638
Elongation at Yield	5.5 %	5.5 %	ISO 527
	6.3 %	6.3 %	ASTM D638
Tensile Modulus	2.40 GPa	348 ksi	1 mm/min; ISO 527

Flexural Strength Mechanical Properties	44.0 MPa Metric	6380 psi English	ASTM D790 Comments
	46.0 MPa	6670 psi	ISO 178
Flexural Modulus	2.13 GPa	309 ksi	ASTM D790
	2.90 GPa	421 ksi	ISO 178
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.34 J/cm	4.38 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	2.00 kJ/mÂ²	0.952 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	20.0 kJ/mÂ²	9.52 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J	2.21 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	68.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	38.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	68.9 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	38.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	70.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	38.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	70.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	38.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	112 Â°C @Thickness 3.20 mm	234 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	75.0 Â°C	167 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	70.0 Â°C @Thickness 3.20 mm	158 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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