

SABIC Innovative Plastics LNP Thermocomp MF006S PP (Asia Pacific)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* Thermocomp* MF006S is a compound based on Polypropylene resin containing Glass Fiber. 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-MF006S-PP-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM D 792
	1.12 g/cc	0.0405 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0065 cm/cm	0.0065 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0098 cm/cm	0.0098 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 527
	81.0 MPa	11700 psi	ASTM D 638
Elongation at Break	1.8 %	1.8 %	ASTM D 638
	3.0 %	3.0 %	ISO 527
Tensile Modulus	9.12 GPa	1320 ksi	1 mm/min; ISO 527
	14.47 GPa	2099 ksi	50 mm/min; ASTM D 638
Flexural Strength	131 MPa	19000 psi	ASTM D 790
	135 MPa	19600 psi	ISO 178
Flexural Modulus	6.20 GPa	899 ksi	ASTM D 790
	6.80 GPa	986 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.530 J/cm @Temperature 23.0 Â°C	0.993 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	6.03 J/cm @Temperature 23.0 Â°C	11.3 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	37.0 kJ/mÂ² @Temperature 23.0 Â°C	17.6 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	38.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	69.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	38.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	44.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	24.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	45.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	25.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	161 Â°C	322 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	157 Â°C @Thickness 3.20 mm	315 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	141 Â°C	286 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	133 Â°C @Thickness 3.20 mm	271 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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