

SABIC Innovative Plastics LNP THERMOCOMP MF006SU PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* THERMOCOMP* MF006SU is a compound based on Polypropylene containing 30% lass Fiber. Characteristics of this grade are: Heat Stabilized, Chemically Coupled, UV Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-MF006SU-PP.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM D792
	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 D955
	@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 D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	5 mm/min; ISO 527
	81.0 MPa	11700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	9.12 GPa	1320 ksi	1 mm/min; ISO 527
	14.47 GPa	2099 ksi	50 mm/min; ASTM D638
Flexural Strength	131 MPa	19000 psi	1.3 mm/min, 50 mm span; ASTM D790
	135 MPa	19600 psi	ISO 178
Flexural Modulus	6.20 GPa	899 ksi	1.3 mm/min, 50 mm span; ASTM D790
	6.80 GPa	986 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric J/cm	English $ft-lb/in$	Comments
Izod Impact, Unnotched	6.03 J/cm	11.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	37.0 kJ/m ²	17.6 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.0 $\mu m/m-^{\circ}C$	37.8 $\mu in/in-^{\circ}F$	ASTM E 831
	@Temperature -40.0 - 40.0 $^{\circ}C$	@Temperature -40.0 - 104 $^{\circ}F$	
	69.0 $\mu m/m-^{\circ}C$	38.3 $\mu in/in-^{\circ}F$	ISO 11359-2
	@Temperature -40.0 - 40.0 $^{\circ}C$	@Temperature -40.0 - 104 $^{\circ}F$	
CTE, linear, Transverse to Flow	44.0 $\mu m/m-^{\circ}C$	24.4 $\mu in/in-^{\circ}F$	ISO 11359-2
	@Temperature -40.0 - 40.0 $^{\circ}C$	@Temperature -40.0 - 104 $^{\circ}F$	
Deflection Temperature at 0.46 MPa (66 psi)	45.0 $\mu m/m-^{\circ}C$	25.0 $\mu in/in-^{\circ}F$	ASTM E 831
	@Temperature -40.0 - 40.0 $^{\circ}C$	@Temperature -40.0 - 104 $^{\circ}F$	
Deflection Temperature at 0.46 MPa (66 psi)	161 $^{\circ}C$	322 $^{\circ}F$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	157 $^{\circ}C$	315 $^{\circ}F$	
Deflection Temperature at 1.8 MPa (264 psi)	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
	141 $^{\circ}C$	286 $^{\circ}F$	
Deflection Temperature at 1.8 MPa (264 psi)	133 $^{\circ}C$	271 $^{\circ}F$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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