

SABIC Innovative Plastics LNP THERMOCOMP MF006S PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* THERMOCOMP* MF006S is a compound based on Polypropylene resin containing 30% Glass Fiber. 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-MF006S-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	ISO 527
	81.0 MPa	11700 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ASTM D638
	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 D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
	135 MPa	19600 psi	ISO 178
Flexural Modulus	6.20 GPa	899 ksi	ASTM D790
	6.80 GPa	986 ksi	ISO 178

Izod Impact, Notched Mechanical Properties	0.530 J/cm Metric	0.993 ft-lb/in English	ASTM D256 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	68.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	38.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	69.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	38.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	44.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	24.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	45.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	25.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	161 $\text{Å}^\circ\text{C}$	322 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	157 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	315 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	141 $\text{Å}^\circ\text{C}$	286 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	133 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	271 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	

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