

SABIC Innovative Plastics LNP THERMOTUF MF004AI PP (Asia Pacific)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* Thermotuf* MF004AI is a compound based on Polypropylene resin containing Glass Fiber. Added features of this material include:

High Impact.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOTUF-MF004AI-PP-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ASTM D792
	1.03 g/cc	0.0372 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.011 - 0.013 cm/cm	0.011 - 0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.012 cm/cm	0.012 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 - 0.013 cm/cm	0.011 - 0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.012 cm/cm	0.012 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	37.0 MPa	5370 psi	ISO 527
	39.0 MPa	5660 psi	ASTM D638
Elongation at Break	4.5 %	4.5 %	ISO 527
	4.8 %	4.8 %	ASTM D638
Tensile Modulus	4.82 GPa	699 ksi	50 mm/min; ASTM D638
	4.94 GPa	716 ksi	1 mm/min; ISO 527
Flexural Strength	41.0 MPa	5950 psi	ASTM D790
	46.0 MPa	6670 psi	ISO 178
Flexural Modulus	2.75 GPa	399 ksi	ASTM D790
	3.00 GPa	435 ksi	ISO 178

Izod Impact, Notched Mechanical Properties	1.70 J/cm Metric	3.18 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	4.37 J/cm	8.19 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	28.0 kJ/m ²	13.3 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	105 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	58.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	106 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	58.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	68.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	37.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	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 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	144 $\text{Å}^\circ\text{C}$	291 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	150 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	302 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	104 $\text{Å}^\circ\text{C}$	219 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	108 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	226 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	

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