

SABIC Innovative Plastics LNP THERMOCOMP MH0500C PP (Asia Pacific)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* Thermocomp* MH0500C is a compound based on Polypropylene resin containing High Specific Gravity Filler. Added features of this material include: High Specific Gravity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-MH0500C-PP-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	5.03 g/cc	0.182 lb/in ³	ISO 1183
	5.04 g/cc	0.182 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.015 - 0.017 cm/cm	0.015 - 0.017 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.016 cm/cm	0.016 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.014 - 0.016 cm/cm	0.014 - 0.016 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	16.0 MPa	2320 psi	ASTM D638
	19.0 MPa	2760 psi	ISO 527
Tensile Strength, Yield	18.0 MPa	2610 psi	ASTM D638
	19.0 MPa	2760 psi	ISO 527
Elongation at Break	13.6 %	13.6 %	ISO 527
	19.5 %	19.5 %	ASTM D638
Elongation at Yield	3.2 %	3.2 %	ASTM D638
	3.3 %	3.3 %	ISO 527
Tensile Modulus	2.92 GPa	424 ksi	1 mm/min; ISO 527
	4.13 GPa	599 ksi	50 mm/min; ASTM D638

Flexural Strength Mechanical Properties	31.0 MPa Metric	4500 psi English	ISO 178 Comments
Flexural Modulus	2.06 GPa	299 ksi	ASTM D790
	2.90 GPa	421 ksi	ISO 178
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.70 J/cm	3.18 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 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	61.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	33.9 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	61.2 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	34.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	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	63.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	35.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	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)	64.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	35.6 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	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 1.8 MPa (264 psi)	122 $\text{Å}^\circ\text{C}$	252 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	126 $\text{Å}^\circ\text{C}$	259 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.0 $\text{Å}^\circ\text{C}$	180 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	80.0 $\text{Å}^\circ\text{C}$	176 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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