

## SABIC Innovative Plastics LNP Thermocomp MH0500A PP (Asia Pacific)

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

LNP THERMOCOMP\* MH0500A is a compound based on Polypropylene resin. Added features of this material include: High Specific Gravity. 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-MH0500A-PP-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-MH0500A-PP-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Density	5.00 g/cc	0.181 lb/in <sup>3</sup>	ASTM D 792
	5.00 g/cc	0.181 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.050 %	0.050 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.011 - 0.013 cm/cm	0.011 - 0.013 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 - 0.013 cm/cm	0.011 - 0.013 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 D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 - 0.013 cm/cm	0.011 - 0.013 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	9.00 MPa	1310 psi	ASTM D 638
	12.0 MPa	1740 psi	ISO 527
Tensile Strength, Yield	13.0 MPa	1890 psi	ISO 527
Elongation at Break	3.9 %	3.9 %	ISO 527
	5.5 %	5.5 %	ASTM D 638
Elongation at Yield	1.7 %	1.7 %	ISO 527
Tensile Modulus	2.62 GPa	380 ksi	50 mm/min; ASTM D 638
	2.80 GPa	406 ksi	1 mm/min; ISO 527
Flexural Strength	27.0 MPa	3920 psi	ASTM D 790

Mechanical Properties	31.0 MPa Metric	4500 psi English	ISO 178 Comments
Flexural Modulus	5.49 GPa	796 ksi	ISO 178
	5.55 GPa	805 ksi	ASTM D 790
Izod Impact, Notched	0.420 J/cm @Temperature 23.0 Â°C	0.787 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	0.960 J/cm @Temperature 23.0 Â°C	1.80 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	6.00 kJ/mÂ² @Temperature 23.0 Â°C	2.86 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	8.00 kJ/mÂ² @Temperature 23.0 Â°C	3.81 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	6.00 J	4.43 ft-lb	Multiaxial Impact; ISO 6603
	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	89.0 Â°C	192 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	86.0 Â°C @Thickness 3.20 mm	187 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China