

## SABIC Innovative Plastics LNP THERMOCOMP MF002S PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

LNP\* Thermocomp\* MF002S is a compound based on Polypropylene resin containing 10% 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-MF002S-PP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-MF002S-PP.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.970 g/cc	0.970 g/cc	ASTM D792
Density	0.960 g/cc	0.0347 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.0 MPa	6090 psi	Type I, 5 mm/min; ASTM D638
	44.0 MPa	6380 psi	5 mm/min; ISO 527
	51.0 MPa	7400 psi	ASTM D638
Tensile Strength, Yield	46.0 MPa	6670 psi	Type I, 5 mm/min; ASTM D638
	46.0 MPa	6670 psi	5 mm/min; ISO 527
Elongation at Break	3.7 %	3.7 %	ASTM D638
	5.8 %	5.8 %	5 mm/min; ISO 527
	6.7 %	6.7 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	4.4 %	4.4 %	5 mm/min; ISO 527
	4.7 %	4.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.97 GPa	431 ksi	1 mm/min; ISO 527
	2.98 GPa	432 ksi	50 mm/min; ASTM D638
Flexural Strength	64.0 MPa	9280 psi	ISO 178

Mechanical Properties	Metric <sup>MPa</sup>	English <sup>ksi</sup>	Comments
Flexural Modulus	2.33 GPa	338 ksi	2 mm/min; ISO 178
	2.39 GPa	347 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.87 GPa	416 ksi	ASTM D790
Izod Impact, Notched	0.380 J/cm	0.712 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.88 J/cm	9.14 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	29.0 kJ/m <sup>2</sup>	13.8 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J @Temperature 23.0 Â°C	2.95 ft-lb @Temperature 73.4 Â°F	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	66.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	36.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	88.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	48.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	146 Â°C	295 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	154 Â°C @Thickness 3.20 mm	309 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	99.0 Â°C	210 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	113 Â°C @Thickness 3.20 mm	235 Â°F @Thickness 0.126 in	unannealed; ASTM D648

## 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