

## SABIC Innovative Plastics LNP THERMOCOMP AF002 ABS

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

LNP THERMOCOMP\* AF002 is a compound based on ABS resin containing 10% Glass Fiber.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-AF002-ABS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-AF002-ABS.php)

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	ISO 1183
	1.111 g/cc	0.04014 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.380 %	0.380 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0041 cm/cm	0.0041 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0038 cm/cm	0.0038 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	64.0 MPa	9280 psi	ISO 527
	66.0 MPa	9570 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
	2.7 %	2.7 %	ISO 527
Tensile Modulus	4.13 GPa	599 ksi	50 mm/min; ASTM D638
	4.20 GPa	609 ksi	1 mm/min; ISO 527
Flexural Strength	105 MPa	15200 psi	ASTM D790
	107 MPa	15500 psi	ISO 178
Flexural Modulus	4.20 GPa	609 ksi	ASTM D790
	4.50 GPa	653 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	3.20 J/cm	5.99 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	24.0 kJ/m <sup>2</sup>	11.4 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	101 Â°C @Thickness 3.20 mm	214 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Â°C	203 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	92.0 Â°C @Thickness 3.20 mm	198 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	UL 94 by SABIC-IP

## Contact Songhan Plastic Technology Co.,Ltd.

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