

## SABIC Innovative Plastics LNP THERMOCOMP AX04518 ABS

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

LNP\* THERMOCOMP\* AX04518 is a compound based on ABS resin containing proprietary filler(s).

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-AX04518-ABS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-AX04518-ABS.php)

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in <sup>3</sup>	ASTM D792
	1.21 g/cc	0.0437 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.400 %	0.400 %	23 <sup>o</sup> C / 50% RH; ISO 62
	0.670 %	0.670 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	74.0 MPa	10700 psi	5 mm/min; ISO 527
	78.0 MPa	11300 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	74.0 MPa	10700 psi	5 mm/min; ISO 527
	78.0 MPa	11300 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.7 %	1.7 %	5 mm/min; ISO 527
	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.7 %	1.7 %	5 mm/min; ISO 527
	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	6.33 GPa	918 ksi	1 mm/min; ISO 527
	6.75 GPa	979 ksi	50 mm/min; ASTM D638
Flexural Strength	98.0 MPa	14200 psi	ISO 178
	110 MPa	16000 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Yield Strength Mechanical Properties	112 MPa Metric	16200 psi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Flexural Modulus	5.99 GPa	869 ksi	2 mm/min; ISO 178
	6.26 GPa	908 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.510 J/cm	0.955 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.69 J/cm	5.04 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)	15.0 kJ/m <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	33.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	69.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	38.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	120 Â°C	248 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	119 Â°C @Thickness 3.20 mm	246 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	115 Â°C	239 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	114 Â°C @Thickness 3.20 mm	237 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