

## SABIC Innovative Plastics LNP THERMOCOMP ZF006 PPE+PS

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

### Material Notes:

LNP\* THERMOCOMP\* ZF006 is a compound based on PPE+PS resin containing 30% Glass Fiber.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-ZF006-PPEPS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-ZF006-PPEPS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Density	1.30 g/cc	0.0470 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.0600 %	0.0600 %	50% RH, 24 hrs; ASTM D570
	0.0900 %	0.0900 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Time 86400 sec	0.0030 - 0.0050 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm @Time 86400 sec	0.0050 - 0.0070 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	108 MPa	15700 psi	5 mm/min; ISO 527
	111 MPa	16100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
	1.8 %	1.8 %	5 mm/min; ISO 527
Tensile Modulus	8.76 GPa	1270 ksi	1 mm/min; ISO 527
	9.21 GPa	1340 ksi	5 mm/min; ASTM D638
Flexural Strength	156 MPa	22600 psi	ISO 178
	161 MPa	23400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.31 GPa	1210 ksi	2 mm/min; ISO 178
	8.63 GPa	1250 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.09 J/cm	2.04 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.54 J/cm	8.51 ft-lb/in	ASTM D4812

Mechanical Properties	Metric	English	Comments
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	17.0 J @Temperature 23.0 Â°C	12.5 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	64.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	35.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	30.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	16.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	140 Â°C	284 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	140 Â°C @Thickness 3.20 mm	284 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	136 Â°C	277 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	135 Â°C @Thickness 3.20 mm	275 Â°F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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