

## SABIC Innovative Plastics LNP THERMOCOMP ZF0089 PPE+PS

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

### Material Notes:

LNP\* THERMOCOMP\* ZF0089 is a compound based on PPE+PS resin containing 40% Glass Fiber. Added features of this material include:  
Exceptional Processing, Flame Retardant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-ZF0089-PPEPS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-ZF0089-PPEPS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D792
Density	1.51 g/cc	0.0546 lb/in <sup>3</sup>	ISO 1183
	1.52 g/cc	0.0549 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.0700 %	0.0700 %	50% RH, 24 hrs; ASTM D570
	0.0900 %	0.0900 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	8.00 MPa	1160 psi	5 mm/min; ISO 527
	101 MPa	14600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	0.80 %	0.80 %	5 mm/min; ISO 527
	1.0 %	1.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	12.28 GPa	1781 ksi	1 mm/min; ISO 527
	13.02 GPa	1888 ksi	50 mm/min; ASTM D638
Flexural Strength	131 MPa	19000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	11.8 GPa	1710 ksi	1.3 mm/min, 50 mm span; ASTM D790
	11.94 GPa	1732 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	3.32 J/cm Metric	6.22 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	6.00 kJ/m <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	19.0 kJ/m <sup>2</sup>	9.04 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	12.0 J @Temperature 23.0 Â°C	8.85 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.7 Âµm/m-Â°C	17.1 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
CTE, linear, Transverse to Flow	53.7 Âµm/m-Â°C	29.8 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	112 Â°C	234 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	110 Â°C @Thickness 3.20 mm	230 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	105 Â°C	221 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	103 Â°C @Thickness 3.20 mm	217 Â°F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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