

## SABIC Innovative Plastics LNP Thermocomp GC006XXZ PSU

Category : Polymer , Thermoplastic , Polysulfone (PSU)

### Material Notes:

LNP THERMOCOMP\* GC006XXZ is a compound based on Polysulfone resin containing Carbon Fiber. This product is also known as Thermocomp\* GC-1006. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-Thermocomp-GC006XXZ-PSU.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-GC006XXZ-PSU.php)

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in <sup>3</sup>	ISO 1183
	1.37 g/cc	0.0495 lb/in <sup>3</sup>	ASTM D 792
Moisture Absorption at Equilibrium	0.15 %	0.15 %	23 <sup>o</sup> C / 50% RH; ISO 62
	0.15 % @Time 86400 sec	0.15 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.00040 - 0.00060 cm/cm	0.00040 - 0.00060 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0025 - 0.0040 cm/cm	0.0025 - 0.0040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	136 MPa	19700 psi	5 mm/min; ISO 527
	137 MPa	19900 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	104 MPa	15100 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	0.70 %	0.70 %	Type I, 5 mm/min; ASTM D 638
	1.2 %	1.2 %	5 mm/min; ISO 527
Tensile Modulus	21.54 GPa	3124 ksi	1 mm/min; ISO 527
	35.16 GPa	5100 ksi	50 mm/min; ASTM D 638
Flexural Strength	191 MPa	27700 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	16.13 GPa	2339 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	16.25 GPa	2357 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.690 J/cm @Temperature 23.0 Â°C	7.72 lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	3.90 J/cm @Temperature 23.0 Â°C	7.31 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	23.0 kJ/mÂ² @Temperature 23.0 Â°C	10.9 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	11.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	32.9 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	18.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	186 Â°C	367 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	184 Â°C @Thickness 3.20 mm	363 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	181 Â°C	358 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	178 Â°C @Thickness 3.20 mm	352 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

## 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