

## SABIC Innovative Plastics LNP THERMOCOMP WFB54 PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

### Material Notes:

LNP\* THERMOCOMP\* WFB54 is a compound based on PBT resin containing 20% Glass Fiber, 25% Glass Bead.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-WFB54-PBT.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-WFB54-PBT.php)

Physical Properties	Metric	English	Comments
Density	2.08 g/cc	0.0751 lb/in <sup>3</sup>	ASTM D792
	2.08 g/cc	0.0751 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0083 cm/cm	0.0083 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.015 - 0.017 cm/cm	0.015 - 0.017 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.016 cm/cm	0.016 in/in	ISO 294
	@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	5.5 %	5.5 %	ISO 527
	6.0 %	6.0 %	ASTM D638
Tensile Modulus	10.09 GPa	1463 ksi	1 mm/min; ISO 527
	15.85 GPa	2299 ksi	50 mm/min; ASTM D638
Flexural Strength	95.0 MPa	13800 psi	ISO 178
Flexural Modulus	7.70 GPa	1120 ksi	ISO 178
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.99 J/cm	5.60 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

Mechanical Properties	Metric	English	Comments
<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
CTE, linear, Parallel to Flow	63.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	35.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTME 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	63.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	35.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	43.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	23.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	43.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	24.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTME 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	216 $\text{Å}^\circ\text{C}$	421 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	190 $\text{Å}^\circ\text{C}$	374 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af

## Contact Songhan Plastic Technology Co.,Ltd.

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