

## SABIC Innovative Plastics LNP Thermocomp WFB51 PBT

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

### Material Notes:

LNP THERMOCOMP\* WFB51 is a compound based on Polybutylene Terephthalate resin containing Glass Bead, Glass Fiber. Added features of this material include: Low Warpage. 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-WFB51-PBT.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-WFB51-PBT.php)

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in <sup>3</sup>	ISO 1183
	1.514 g/cc	0.05470 lb/in <sup>3</sup>	ASTM D 792
Moisture Absorption at Equilibrium	0.080 %	0.080 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0129 cm/cm	0.0129 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0158 cm/cm	0.0158 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.016 cm/cm	0.016 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	58.0 MPa	8410 psi	ASTM D 638
	58.0 MPa	8410 psi	ISO 527
Elongation at Break	3.2 %	3.2 %	ASTM D 638
	3.2 %	3.2 %	ISO 527
Tensile Modulus	4.20 GPa	609 ksi	50 mm/min; ASTM D 638
	4.30 GPa	624 ksi	1 mm/min; ISO 527
Flexural Strength	100 MPa	14500 psi	ISO 178
	101 MPa	14600 psi	ASTM D 790
Flexural Modulus	4.12 GPa	598 ksi	ISO 178

Mechanical Properties	4.13 GPa Metric	599 ksi English	ASTM D 790 Comments
Izod Impact, Notched	0.260 J/cm @Temperature 23.0 °C	0.487 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	2.83 J/cm @Temperature 23.0 °C	5.30 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup> @Temperature 23.0 °C	1.90 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	20.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	9.52 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	3.00 J @Temperature 23.0 °C	2.21 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak; ASTM D 3763

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