

## SABIC Innovative Plastics LNP Thermocomp WF007 PET/PBT

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

### Material Notes:

LNP Thermocomp WF-1007 BK8-114 is a compound based on PET/PBT resin containing glass fiber. 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-WF007-PETPBT.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-WF007-PETPBT.php)

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in <sup>3</sup>	ASTM D 792
	1.60 g/cc	0.0578 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.070 %	0.070 %	23 <sup>o</sup> C / 50% RH; ISO 62
	0.050 % @Time 86400 sec	0.050 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.020 cm/cm	0.0090 - 0.020 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	5 mm/min; ISO 527
	121 MPa	17500 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	120 MPa	17400 psi	5 mm/min; ISO 527
	121 MPa	17500 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D 638
	2.0 %	2.0 %	5 mm/min; ISO 527
Elongation at Yield	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D 638
	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	11.03 GPa	1600 ksi	1 mm/min; ISO 527
	16.88 GPa	2448 ksi	50 mm/min; ASTM D 638
Flexural Strength	185 MPa	26800 psi	1.3 mm/min, 50 mm span; ASTM D 790

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	186 MPa	27000 psi	2 mm/min; ISO 178
Flexural Modulus	9.83 GPa	1430 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	9.88 GPa	1430 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.780 J/cm @Temperature 23.0 Â°C	1.46 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	6.20 J/cm @Temperature 23.0 Â°C	11.6 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	7.00 kJ/mÂ² @Temperature 23.0 Â°C	3.33 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	40.0 kJ/mÂ² @Temperature 23.0 Â°C	19.0 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	222 Â°C	432 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	222 Â°C @Thickness 3.20 mm	432 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	203 Â°C	397 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	207 Â°C @Thickness 3.20 mm	405 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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