

## SABIC Innovative Plastics LNP THERMOCOMP WH0420A\_GY5A749 PBT

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

### Material Notes:

4.2 specific gravity, PBT, gray

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-WH0420AGY5A749-PBT.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-WH0420AGY5A749-PBT.php)

Physical Properties	Metric	English	Comments
Density	4.20 g/cc	0.152 lb/in <sup>3</sup>	ASTM D792
	4.20 g/cc	0.152 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.0500 %	0.0500 %	50% RH, 24 hrs; ASTM D570
	0.0700 %	0.0700 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.016 - 0.018 cm/cm	0.016 - 0.018 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.014 - 0.016 cm/cm	0.014 - 0.016 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	25.0 MPa	3630 psi	5 mm/min; ISO 527
	26.0 MPa	3770 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	27.0 MPa	3920 psi	Type I, 5 mm/min; ASTM D638
	27.0 MPa	3920 psi	5 mm/min; ISO 527
Elongation at Break	9.7 %	9.7 %	5 mm/min; ISO 527
	18.6 %	18.6 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	8.4 %	8.4 %	5 mm/min; ISO 527
	12.2 %	12.2 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.80 GPa	261 ksi	1 mm/min; ISO 527
	1.93 GPa	280 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	46.0 MPa	6670 psi	2 mm/min; ISO 178
	50.0 MPa	7250 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Modulus Mechanical Properties	1.84 GPa Metric	267 ksi English	2 mm/min: ISO 178 Comments
	1.91 GPa	277 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.17 J/cm	2.19 ft-lb/in	ASTM D256
Izod Impact, Unnotched	11.8 J/cm	22.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	78.0 kJ/m <sup>2</sup>	37.1 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	16.0 J @Temperature 23.0 Â°C	11.8 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	92.4 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	51.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	94.9 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	52.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	53.0 Â°C	127 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	51.0 Â°C @Thickness 3.20 mm	124 Â°F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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