

## SABIC Innovative Plastics LNP Thermocomp WX01910L PBT

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

### Material Notes:

LNP\* Thermocomp\* WX01910L is a compound based on Thermoplastic Polyester containing Proprietary Fillers. Characteristics of this grade are: Low Extractable. 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-WX01910L-PBT.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-WX01910L-PBT.php)

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in <sup>3</sup>	ASTM D 792
Moisture Absorption at Equilibrium	0.050 %	0.050 %	23 <sup>o</sup> C / 50% RH; ISO 62
	0.050 %	0.050 %	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.040 cm/cm	0.010 - 0.040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	102 MPa	14800 psi	5 mm/min; ISO 527
	109 MPa	15800 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	110 MPa	16000 psi	5 mm/min; ISO 527
Elongation at Break	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D 638
	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	9.84 GPa	1430 ksi	1 mm/min; ISO 527
	10.22 GPa	1482 ksi	50 mm/min; ASTM D 638
Flexural Strength	163 MPa	23600 psi	ISO 178
	164 MPa	23800 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Yield Strength	166 MPa	24100 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	8.72 GPa	1260 ksi	2 mm/min; ISO 178
	8.98 GPa	1300 ksi	1.3 mm/min, 50 mm span; ASTM D

Mechanical Properties	Metric	English	790 Comments
Izod Impact, Notched	0.640 J/cm @Temperature 23.0 Â°C	1.20 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	5.79 J/cm @Temperature 23.0 Â°C	10.8 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	6.00 kJ/mÂ² @Temperature 23.0 Â°C	2.86 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	37.0 kJ/mÂ² @Temperature 23.0 Â°C	17.6 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	36.9 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	20.5 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	115 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	63.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	219 Â°C	426 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	221 Â°C @Thickness 3.20 mm	430 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	197 Â°C	387 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	206 Â°C @Thickness 3.20 mm	403 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

## Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

**Tel : +86 021-51131842**

**Mobile : +86 13061808058**

**Skype : lookpolymers**

**Address : United North Road 215,Fengxian District, Shanghai City,China**