

## SABIC Innovative Plastics LNP STAT-LOY WF306C PBT

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

### Material Notes:

LNP\* STAT-LOY\* WF306C is a compound based on PBT resin containing 30% Glass Fiber. Added features of this material include: Antistat, Clean Compound System.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-LOY-WF306C-PBT.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-WF306C-PBT.php)

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in <sup>3</sup>	ASTM D792
	1.48 g/cc	0.0535 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	2.50 %	2.50 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0039 cm/cm	0.0039 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	62.0 MPa	8990 psi	ASTM D638
	63.0 MPa	9140 psi	ISO 527
Tensile Strength, Yield	62.0 MPa	8990 psi	ASTM D638
	63.0 MPa	9140 psi	ISO 527
Elongation at Break	1.7 %	1.7 %	ISO 527
	2.0 %	2.0 %	ASTM D638
Elongation at Yield	1.7 %	1.7 %	ISO 527
	2.0 %	2.0 %	ASTM D638
Tensile Modulus	6.65 GPa	965 ksi	1 mm/min; ISO 527

Mechanical Properties	7.58 GPa Metric	1100 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	82.0 MPa	11900 psi	ASTM D790
	93.0 MPa	13500 psi	ISO 178
Flexural Modulus	5.51 GPa	799 ksi	ASTM D790
	5.60 GPa	812 ksi	ISO 178
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.08 J/cm	11.4 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	34.0 kJ/m <sup>2</sup>	16.2 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J	9.59 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	124 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	68.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	125 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	69.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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	59.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	33.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 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)	60.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	33.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	207 $\text{Å}^\circ\text{C}$	405 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	210 $\text{Å}^\circ\text{C}$	410 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	172 $\text{Å}^\circ\text{C}$	342 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	177 $\text{Å}^\circ\text{C}$	351 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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