

## SABIC Innovative Plastics LNP STAT-LOY W3000XXJ PBT

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

### Material Notes:

LNP\* STAT-LOY\* W3000XXJ is a compound based on PBT. Added features of this grade include: Anti-Stat, Colorable, Healthcare

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-LOY-W3000XXJ-PBT.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-W3000XXJ-PBT.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Density	1.27 g/cc	0.0459 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.230 %	0.230 %	50% RH, 24 hrs; ASTM D570
	0.370 %	0.370 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm	0.020 - 0.040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	41.0 MPa	5950 psi	Type I, 5 mm/min; ASTM D638
	42.0 MPa	6090 psi	5 mm/min; ISO 527
Elongation at Break	4.3 %	4.3 %	Type I, 5 mm/min; ASTM D638
	9.6 %	9.6 %	5 mm/min; ISO 527
Elongation at Yield	8.5 %	8.5 %	5 mm/min; ISO 527
Tensile Modulus	1.88 GPa	273 ksi	1 mm/min; ISO 527
	1.93 GPa	280 ksi	50 mm/min; ASTM D638
Flexural Strength	61.0 MPa	8850 psi	ISO 178
Flexural Modulus	1.89 GPa	274 ksi	2 mm/min; ISO 178
	1.94 GPa	281 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.610 J/cm	1.14 ft-lb/in	ASTM D256
Izod Impact, Unnotched	14.0 J/cm	26.2 ft-lb/in	ASTM D4812

Izod Impact, Notched (ISO) Mechanical Properties	5.00 kJ/m <sup>2</sup> Metric	2.38 ft-lb/in <sup>2</sup> English	80*10*4- ISO 180/1A Comments
Izod Impact, Unnotched (ISO)	89.0 kJ/m <sup>2</sup>	42.4 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J @Temperature 23.0 Â°C	2.21 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel 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 D696
CTE, linear, Transverse to Flow	128 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	71.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	139 Â°C	282 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	157 Â°C @Thickness 3.20 mm	315 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	54.0 Â°C	129 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	55.0 Â°C @Thickness 3.20 mm	131 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+11 - 1.00e+13 ohm	1.00e+11 - 1.00e+13 ohm	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

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