

## SABIC Innovative Plastics LNP STAT-LOY A3000TXB ABS

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

LNP\* STAT-LOY\* A3000TXB is a compound based on ABS resin. Added features of this material include: Antistatic, Transparent, Formulated with FDA Food Contact Additives and Bioassessed to ISO 10993.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-LOY-A3000TXB-ABS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-A3000TXB-ABS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Density	1.08 g/cc	0.0390 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.540 %	0.540 %	50% RH, 24 hrs; ASTM D570
	0.810 %	0.810 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	26.0 MPa	3770 psi	5 mm/min; ISO 527
	27.0 MPa	3920 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	37.0 MPa	5370 psi	5 mm/min; ISO 527
	38.0 MPa	5510 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	29 %	29 %	5 mm/min; ISO 527
	31 %	31 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
	4.0 %	4.0 %	5 mm/min; ISO 527
Tensile Modulus	1.55 GPa	225 ksi	1 mm/min; ISO 527
	1.66 GPa	241 ksi	5 mm/min; ASTM D638
Flexural Strength	49.0 MPa	7110 psi	ISO 178
Flexural Yield Strength	54.0 MPa	7830 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	1.49 GPa	215 ksi	2 mm/min; ISO 178
	1.63 GPa	236 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.31 J/cm	2.45 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	14.0 kJ/m <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Dart Drop, Total Energy	20.0 J @Temperature 23.0 Â°C	14.8 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	33.0 J	24.3 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	5.56 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	109 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	60.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	77.0 Â°C	171 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	78.0 Â°C @Thickness 3.20 mm	172 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	66.0 Â°C	151 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	66.0 Â°C @Thickness 3.20 mm	151 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 - 1.00e+12 ohm-cm	1.00e+10 - 1.00e+12 ohm-cm	ASTM D257
Surface Resistance	1.00e+9 - 1.00e+11 ohm	1.00e+9 - 1.00e+11 ohm	ASTM D257
Static Decay	<= 1.0 sec	<= 1.0 sec	5000V to <50V; FTMS101B

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

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