

## SABIC Innovative Plastics LNP STAT-LOY AX11421 ABS

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

LNP\* STAT-LOY\* AX11421 is a compound based on ABS resin. Added feature of this material is: Antistatic.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-LOY-AX11421-ABS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-AX11421-ABS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	2.00 %	2.00 %	50% RH, 24 hrs; ASTM D570
	3.70 %	3.70 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	21.0 MPa	3050 psi	Type I, 5 mm/min; ASTM D638
	21.0 MPa	3050 psi	5 mm/min; ISO 527
Tensile Strength, Yield	30.0 MPa	4350 psi	Type I, 5 mm/min; ASTM D638
	30.0 MPa	4350 psi	5 mm/min; ISO 527
Elongation at Break	48 %	48 %	Type I, 5 mm/min; ASTM D638
	81 %	81 %	5 mm/min; ISO 527
Elongation at Yield	4.4 %	4.4 %	5 mm/min; ISO 527
	4.7 %	4.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.31 GPa	190 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Flexural Strength	44.0 MPa	6380 psi	ISO 178
Flexural Yield Strength	44.0 MPa	6380 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.33 GPa	193 ksi	2 mm/min; ISO 178
	1.35 GPa	196 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	4.25 J/cm	7.96 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	39.0 kJ/m <sup>2</sup>	18.6 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
Dart Drop, Total Energy	29.0 J @Temperature 23.0 Â°C	21.4 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	20.0 J	14.8 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	113 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	62.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	126 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	70.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	85.0 Â°C	185 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	86.0 Â°C @Thickness 3.20 mm	187 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	67.0 Â°C	153 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	69.0 Â°C @Thickness 3.20 mm	156 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	UL 94

Electrical Properties	Metric	English	Comments
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Electrical Properties

Metric 1.00e+7 - 1.00e+9 ohm

English 1.00e+7 - 1.00e+9 ohm

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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