

## SABIC Innovative Plastics LNP STAT-LOY AF3009 ABS

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

LNP\* STAT-LOY\* AF3009 is a compound based on ABS resin containing 10% Glass Fiber. Added features of this material include:  
Antistatic, Flame Retardant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-LOY-AF3009-ABS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-AF3009-ABS.php)

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in <sup>3</sup>	ASTM D792
	1.31 g/cc	0.0473 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	2.00 %	2.00 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0093 cm/cm	0.0093 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.0 MPa	6090 psi	ASTM D638
	42.0 MPa	6090 psi	ISO 527
Tensile Strength, Yield	42.0 MPa	6090 psi	ASTM D638
	43.0 MPa	6240 psi	ISO 527
Elongation at Break	1.8 %	1.8 %	ISO 527
	1.9 %	1.9 %	ASTM D638
Elongation at Yield	1.8 %	1.8 %	ASTM D638
	1.8 %	1.8 %	ISO 527
Tensile Modulus	3.62 GPa	525 ksi	1 mm/min; ISO 527

Mechanical Properties	4.13 GPa Metric	599 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	55.0 MPa	7980 psi	ASTM D790
	61.0 MPa	8850 psi	ISO 178
Flexural Modulus	3.20 GPa	464 ksi	ISO 178
	3.44 GPa	499 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.24 J/cm	4.20 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	15.0 kJ/m <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J	2.95 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	93.6 Åµm/m-Å°C	52.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	94.0 Åµm/m-Å°C	52.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	61.2 Åµm/m-Å°C	34.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	62.0 Åµm/m-Å°C	34.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	98.0 Å°C	208 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	96.0 Å°C	205 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Å°C	194 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	87.0 Å°C	189 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	COATING SABIC-IP

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+10 - 1.00e+12 ohm	1.00e+10 - 1.00e+12 ohm	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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