SABIC Innovative Plastics LNP STAT-LOY AF3009 ABS (Asia Pacific)

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* Stat-loy* AF3009 is a compound based on Acrylonitrile Butadiene Styrene resin containing Glass Fiber, Flame Retardant. Added features of this material include: Antistat, Flame Retardant.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-AF3009-ABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/inÂ³	ASTM D792
	1.31 g/cc	0.0473 lb/inÂ³	ISO 1183
Moisture Absorption	2.00 %	2.00 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm @Time 86400 sec	0.0080 - 0.010 in/in @Time 24.0 hour	ASTM D955
	0.0093 cm/cm @Time 86400 sec	0.0093 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.0090 - 0.011 cm/cm @Time 86400 sec	0.0090 - 0.011 in/in @Time 24.0 hour	ASTM D955
	0.010 cm/cm @Time 86400 sec	0.010 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.0 MPa	6090 psi	ASTM D638
	42.0 MPa	6090 psi	Type I, 5 mm/min; ASTM D638
	42.0 MPa	6090 psi	ISO 527
	42.0 MPa	6090 psi	5 mm/min; ISO 527
Tensile Strength, Yield	42.0 MPa	6090 psi	ASTM D638
	43.0 MPa	6240 psi	Type I, 5 mm/min; ASTM D638
	43.0 MPa	6240 psi	ISO 527
	43.0 MPa	6240 psi	5 mm/min; ISO 527
Elongation at Break	1.8 %	1.8 %	ISO 527

Mechanical Properties	Metric	English	Comments
	1.9 %	1.9 %	5 mm/min; ISO 527
	1.9 %	1.9 %	ASTM D638
	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.8 %	1.8 %	ASTM D638
	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
	1.8 %	1.8 %	ISO 527
	1.8 %	1.8 %	5 mm/min; ISO 527
Tensile Modulus	3.62 GPa	525 ksi	1 mm/min; ISO 527
	4.13 GPa	599 ksi	50 mm/min; ASTM D638
Flexural Strength	55.0 MPa	7980 psi	ASTM D790
	59.0 MPa	8560 psi	1.3 mm/min, 50 mm span; ASTM D790
	61.0 MPa	8850 psi	ISO 178
Flexural Yield Strength	61.0 MPa	8850 psi	2 mm/min; ISO 178
Flexural Modulus	3.20 GPa	464 ksi	ISO 178
	3.20 GPa	464 ksi	2 mm/min; ISO 178
	3.44 GPa	499 ksi	ASTM D790
	3.45 GPa	500 ksi	1.3 mm/min, 50 mm span; 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/mÂ²	1.43 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	15.0 kJ/mÂ²	7.14 ft-lb/inÂ²	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 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	52.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831

Thermal Properties	Metric	English	Comments
	94.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	52.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	94.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	52.2 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	61.2 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	34.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	62.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	34.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	62.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	34.4 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	98.0 Â°C	208 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	96.0 Â°C @Thickness 3.20 mm	205 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Â°C	194 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	87.0 Â°C @Thickness 3.20 mm	189 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94 by SABIC-IP
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 1000 ohm	10 - 1000 ohm	ASTM D257

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058

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