

SABIC Innovative Plastics LNP STAT-LOY A3000 ABS (Asia Pacific)

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP STAT-LOY A3000 is a compound based on Acrylonitrile butadiene Styrene resin containing Anti-Static. Added features of this material include: Antistatic. Also known as: STAT-LOY A

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-A3000-ABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ISO 1183
	1.065 g/cc	0.03848 lb/in ³	ASTM D792
Moisture Absorption	1.08 %	1.08 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	31.0 MPa	4500 psi	5 mm/min; ISO 527
	36.0 MPa	5220 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	38.0 MPa	5510 psi	5 mm/min; ISO 527
	39.0 MPa	5660 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	6.0 %	6.0 %	Type I, 5 mm/min; ASTM D638
	24.2 %	24.2 %	5 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	5 mm/min; ISO 527
	3.1 %	3.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.01 GPa	292 ksi	1 mm/min; ISO 527
	2.06 GPa	299 ksi	50 mm/min; ASTM D638
Flexural Strength	65.0 MPa	9430 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	59.0 MPa	8560 psi	2 mm/min; ISO 178
Flexural Modulus	1.98 GPa	287 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
	2.09 GPa	30.3 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.82 J/cm	5.28 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
Dart Drop, Total Energy	32.0 J	23.6 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	93.4 Åµm/m-Å°C	51.9 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	93.4 Åµm/m-Å°C	51.9 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
CTE, linear, Transverse to Flow	101 Åµm/m-Å°C	56.1 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	101 Åµm/m-Å°C	56.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	91.0 Å°C	196 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	88.0 Å°C	190 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	76.0 Å°C	169 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	76.0 Å°C	169 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+9 - 1.00e+11 ohm	1.00e+9 - 1.00e+11 ohm	ASTM D257

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