

SABIC Innovative Plastics LNP STAT-LOY A3000T ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* STAT-LOY A3000T is a compound based on ABS. Added features of this grade include: Antistatic, Clear.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-A3000T-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Density	1.08 g/cc	0.0390 lb/in ³	ASTM D792
	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Moisture Absorption	0.800 %	0.800 %	50% RH, 24 hrs; ASTM D570
	0.800 %	0.800 %	23 ^o 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	
	0.0068 cm/cm	0.0068 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	
	0.0083 cm/cm	0.0083 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	24.0 MPa	3480 psi	Type I, 5 mm/min; ASTM D638
	24.0 MPa	3480 psi	5 mm/min; ISO 527
Tensile Strength, Yield	32.0 MPa	4640 psi	Type I, 5 mm/min; ASTM D638
	32.0 MPa	4640 psi	5 mm/min; ISO 527
Elongation at Break	39 %	39 %	Type I, 5 mm/min; ASTM D638
	62.9 %	62.9 %	ISO 527
	63 %	63 %	5 mm/min; ISO 527
Tensile Modulus	1.14 GPa	165 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Flexural Strength	42.0 MPa	6090 psi	1.3 mm/min, 50 mm span; ASTM D790
	42.0 MPa	6090 psi	ISO 178
Flexural Modulus	1.41 GPa	205 ksi	2 mm/min; ISO 178
	1.47 GPa	213 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.33 J/cm	2.49 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	118 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	65.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	119 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	66.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	112 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	62.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	112 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	62.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	81.0 $\text{Å}^\circ\text{C}$	178 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	81.0 $\text{Å}^\circ\text{C}$	178 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	68.0 $\text{Å}^\circ\text{C}$	154 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	87.0 $\text{Å}^\circ\text{C}$	189 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.0 - 11 ohm-cm	9.0 - 11 ohm-cm	ASTM D257
Surface Resistance	1.00e+10 - 1.00e+12 ohm	1.00e+10 - 1.00e+12 ohm	ASTM D257

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