

SABIC Innovative Plastics LNP STAT-LOY A3000LTH ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* STAT-LOY* A3000LTH is a compound based on ABS resin. Added features of this material include: Transparent, Antistatic, Formulation Locked.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-A3000LTH-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Density	1.08 g/cc	0.0390 lb/in ³	ASTM D792
Moisture Absorption	0.520 %	0.520 %	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	
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	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	27.0 MPa	3920 psi	Type I, 5 mm/min; ASTM D638
	28.0 MPa	4060 psi	5 mm/min; ISO 527
Tensile Strength, Yield	37.0 MPa	5370 psi	5 mm/min; ISO 527
	38.0 MPa	5510 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	33 %	33 %	Type I, 5 mm/min; ASTM D638
	37 %	37 %	5 mm/min; ISO 527
Elongation at Yield	3.8 %	3.8 %	5 mm/min; ISO 527
	3.9 %	3.9 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.60 GPa	232 ksi	1 mm/min; ISO 527
	1.68 GPa	244 ksi	5 mm/min; ASTM D638
Flexural Strength	52.0 MPa	7540 psi	ISO 178
Flexural Yield Strength	56.0 MPa	8120 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	1.50 GPa	220 ksi	2 mm/min; ISO 178
	1.66 GPa	241 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.70 J/cm	3.18 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	80*10*4; ISO 180/1A
Dart Drop, Total Energy	34.0 J @Temperature 23.0 Â°C	25.1 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	26.0 J	19.2 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	106 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	58.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse 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
Deflection Temperature at 0.46 MPa (66 psi)	76.0 Â°C	169 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	78.0 Â°C @Thickness 3.20 mm	172 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	63.0 Â°C	145 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	65.0 Â°C @Thickness 3.20 mm	149 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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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