

SABIC Innovative Plastics LNP Stat-loy A3000Z ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* Stat-loy* A3000Z is a compound based on Acrylonitrile Butadiene Styrene resin containing Anti-Static. Added features of this material include: Antistat. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-loy-A3000Z-ABS.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D 792
	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.6 %	1.6 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0077 cm/cm	0.0077 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0092 cm/cm	0.0092 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	ASTM D 638
	27.0 MPa	3920 psi	ISO 527
Tensile Strength, Yield	30.0 MPa	4350 psi	ASTM D 638
	36.0 MPa	5220 psi	ISO 527
Elongation at Break	50.1 %	50.1 %	ISO 527
	52.1 %	52.1 %	ASTM D 638
Elongation at Yield	3.5 %	3.5 %	ASTM D 638
	3.5 %	3.5 %	ISO 527
Tensile Modulus	1.37 GPa	199 ksi	50 mm/min; ASTM D 638

Mechanical Properties	Metric 1.58 GPa	English 229 ksi	Comments 1 mm/min; ISO 527
Flexural Strength	45.0 MPa	6530 psi	ISO 178
Flexural Modulus	1.37 GPa	199 ksi	ASTM D 790
	1.60 GPa	232 ksi	ISO 178
Izod Impact, Notched	3.89 J/cm @Temperature 23.0 Â°C	7.29 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	14.2 J/cm @Temperature 23.0 Â°C	26.6 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	32.0 kJ/mÂ² @Temperature 23.0 Â°C	15.2 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	148 kJ/mÂ² @Temperature 23.0 Â°C	70.4 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	35.0 J	25.8 ft-lb	Multiaxial Impact; ISO 6603
	39.0 J @Temperature 23.0 Â°C	28.8 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	127 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	70.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	128 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	71.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	103 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	57.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	103 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	57.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	91.0 Â°C	196 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	78.0 Â°C	172 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	73.0 Â°C	163 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+10 - 1.00e+12 ohm	1.00e+10 - 1.00e+12 ohm	ASTM D 257

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