

SABIC Innovative Plastics LNP STAT-LOY AF306 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* STAT-LOY* AF306 is a compound based on ABS resin containing 30% Glass Fiber. Added feature of this material is: Antistatic.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-AF306-ABS.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ISO 1183
	1.29 g/cc	0.0466 lb/in ³	ASTM D792
Moisture Absorption	3.00 %	3.00 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 cm/cm	0.0030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0045 cm/cm	0.0045 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	38.0 MPa	5510 psi	ASTM D638
	43.0 MPa	6240 psi	ISO 527
Tensile Strength, Yield	38.0 MPa	5510 psi	ASTM D638
	43.0 MPa	6240 psi	ISO 527
Elongation at Break	1.0 %	1.0 %	ASTM D638
	1.0 %	1.0 %	ISO 527
Elongation at Yield	1.0 %	1.0 %	ASTM D638
	1.1 %	1.1 %	ISO 527
Tensile Modulus	6.01 GPa	872 ksi	1 mm/min; ISO 527
	6.89 GPa	999 ksi	50 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	63.0 MPa	9140 psi	ISO 178
Flexural Modulus	5.51 GPa	799 ksi	ASTM D790
	5.70 GPa	827 ksi	ISO 178
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.50 J/cm	4.68 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	17.0 kJ/m ²	8.09 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 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	113 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	62.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	114 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	63.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	43.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	23.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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)	103 $\text{Å}^\circ\text{C}$	217 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	102 $\text{Å}^\circ\text{C}$	216 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	71.0 $\text{Å}^\circ\text{C}$	160 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	95.0 $\text{Å}^\circ\text{C}$	203 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+6 - 1.00e+9 ohm	1.00e+6 - 1.00e+9 ohm	ASTM D257

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