

SABIC Innovative Plastics LNP STAT-LOY AX06484 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* STAT-LOY* AX06484 is a compound based on ABS resin containing Talc. Added feature of this grade is: Antistatic, Extrudeable.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-AX06484-ABS.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Moisture Absorption	3.80 %	3.80 %	50% RH, 24 hrs; ASTM D570
	5.60 %	5.60 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	25.0 MPa	3630 psi	Type I, 5 mm/min; ASTM D638
	26.0 MPa	3770 psi	5 mm/min; ISO 527
Tensile Strength, Yield	26.0 MPa	3770 psi	5 mm/min; ISO 527
	28.0 MPa	4060 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.1 %	2.1 %	5 mm/min; ISO 527
	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.1 %	2.1 %	5 mm/min; ISO 527
	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.54 GPa	368 ksi	1 mm/min; ISO 527
	3.12 GPa	453 ksi	50 mm/min; ASTM D638
Flexural Strength	45.0 MPa	6530 psi	ISO 178
	50.0 MPa	7250 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	51.0 MPa	7400 psi	1.3 mm/min, 50 mm span; ASTM D790

Elemental Modulus Mechanical Properties	2.59 GPa Metric	375 ksi English	2 mm/min; ISO 178 Comments
	2.75 GPa	399 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.440 J/cm	0.824 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.41 J/cm	8.26 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ²	1.90 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/mÂ²	11.9 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J @Temperature 23.0 Â°C	2.21 ft-lb @Temperature 73.4 Â°F	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	95.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	52.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	62.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	34.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	93.0 Â°C	199 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	97.0 Â°C @Thickness 3.20 mm	207 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	76.0 Â°C	169 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	76.0 Â°C @Thickness 3.20 mm	169 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	7.0 - 9.0 ohm	7.0 - 9.0 ohm	ASTM D257

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