

SABIC Innovative Plastics LNP STAT-KON AX01706 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* STAT-KON* AX01706 is a compound based on ABS containing proprietary fillers. Added feature of this grade is: Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-AX01706-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Density	1.09 g/cc	0.0394 lb/in ³	ASTM D792
Moisture Absorption	0.190 %	0.190 %	50% RH, 24 hrs; ASTM D570
	0.270 %	0.270 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Time 86400 sec	0.0050 - 0.0070 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm @Time 86400 sec	0.0060 - 0.0080 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	24.0 MPa	3480 psi	5 mm/min; ISO 527
	27.0 MPa	3920 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	28.0 MPa	4060 psi	5 mm/min; ISO 527
	30.0 MPa	4350 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	5.8 %	5.8 %	Type I, 5 mm/min; ASTM D638
	7.4 %	7.4 %	5 mm/min; ISO 527
Elongation at Yield	1.8 %	1.8 %	5 mm/min; ISO 527
	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.03 GPa	294 ksi	1 mm/min; ISO 527
	2.04 GPa	296 ksi	50 mm/min; ASTM D638
Flexural Strength	46.0 MPa	6670 psi	1.3 mm/min, 50 mm span; ASTM D790
	52.0 MPa	7540 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	82.0 MPa	7940 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.03 GPa	294 ksi	2 mm/min; ISO 178
	2.07 GPa	300 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.73 J/cm	8.86 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ²	2.38 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	13.0 J @Temperature 23.0 Â°C	9.59 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	85.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	47.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	88.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	48.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	97.0 Â°C	207 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	96.0 Â°C @Thickness 3.20 mm	205 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	88.0 Â°C @Thickness 3.20 mm	190 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	2.0 - 6.0 ohm	2.0 - 6.0 ohm	ASTM D257

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