

SABIC Innovative Plastics LNP STAT-KON AX02747 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* STAT-KON* AX02747 is a compound based on ABS resin containing Proprietary Filler(s). Added feature of this material is: Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-AX02747-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792
Moisture Absorption	0.170 %	0.170 %	50% RH, 24 hrs; ASTM D570
	0.240 %	0.240 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	141 MPa	20500 psi	5 mm/min; ISO 527
	143 MPa	20700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	0.90 %	0.90 %	Type I, 5 mm/min; ASTM D638
	0.90 %	0.90 %	5 mm/min; ISO 527
Tensile Modulus	25.3 GPa	3670 ksi	1 mm/min; ISO 527
	30.06 GPa	4360 ksi	50 mm/min; ASTM D638
Flexural Strength	200 MPa	29000 psi	1.3 mm/min, 50 mm span; ASTM D790
	215 MPa	31200 psi	ISO 178
Flexural Modulus	23.7 GPa	3440 ksi	1.3 mm/min, 50 mm span; ASTM D790
	24.67 GPa	3578 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	3.17 J/cm Metric	5.94 ft-lb/in English	ASTM D4812 Comments
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)	18.0 kJ/m ²	8.57 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	21.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	11.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	25.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	13.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	107 Â°C	225 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	106 Â°C @Thickness 3.20 mm	223 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	101 Â°C	214 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	101 Â°C @Thickness 3.20 mm	214 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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