

SABIC Innovative Plastics LNP STAT-KON AX00756 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP STAT-KON* AX00756 is a compound based on ABS resin containing Stainless Steel. 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-AX00756-ABS.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
	1.165 g/cc	0.04209 lb/in ³	ASTM D792
Moisture Absorption	0.300 %	0.300 %	23 ^o C / 50% RH; ISO 62
	0.350 %	0.350 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 cm/cm	0.0070 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0078 cm/cm	0.0078 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	28.0 MPa	4060 psi	ISO 527
	29.0 MPa	4210 psi	ASTM D638
Tensile Strength, Yield	29.0 MPa	4210 psi	ASTM D638
	30.0 MPa	4350 psi	ISO 527
Elongation at Break	1.8 %	1.8 %	ASTM D638
	5.4 %	5.4 %	ISO 527
Elongation at Yield	1.7 %	1.7 %	ISO 527
	1.8 %	1.8 %	ASTM D638

Tensile Modulus Mechanical Properties	2.58 GPa Metric	374 ksi English	1 mm/min; ISO 527 Comments
	2.96 GPa	429 ksi	50 mm/min; ASTM D638
Flexural Strength	58.0 MPa	8410 psi	ISO 178
	61.0 MPa	8850 psi	ASTM D790
Flexural Modulus	2.57 GPa	373 ksi	ISO 178
	2.84 GPa	412 ksi	ASTM D790
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.08 J/cm	3.90 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	69.8 Åµm/m-Å°C	38.8 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	69.8 Åµm/m-Å°C	38.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	75.5 Åµm/m-Å°C	41.9 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	75.6 Åµm/m-Å°C	42.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	93.0 Å°C	199 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	91.0 Å°C	196 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	82.0 Å°C	180 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	80.0 Å°C	176 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	10 ohm - 1e+05	10 ohm - 1e+05	ASTM D257

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