

SABIC Innovative Plastics LNP STAT-KON AE002 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* STAT-KON* AE002 is a compound based on ABS resin containing 10% Carbon Fiber. 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-AE002-ABS.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ASTM D792
	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Moisture Absorption	0.230 %	0.230 %	50% RH, 24 hrs; ASTM D570
	0.350 %	0.350 %	23 ^o C / 50% RH; ISO 62
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 - 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	82.0 MPa	11900 psi	5 mm/min; ISO 527
	83.0 MPa	12000 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	82.0 MPa	11900 psi	5 mm/min; ISO 527
	86.0 MPa	12500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.4 %	1.4 %	5 mm/min; ISO 527
	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.4 %	1.4 %	5 mm/min; ISO 527
	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	7.38 GPa	1070 ksi	1 mm/min; ISO 527
	7.65 GPa	1110 ksi	50 mm/min; ASTM D638
Flexural Strength	108 MPa	15700 psi	1.3 mm/min, 50 mm span; ASTM D790
	112 MPa	16200 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	11.4 MPa	16500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.50 GPa	943 ksi	2 mm/min; ISO 178
	6.66 GPa	966 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.28 J/cm	4.27 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)	15.0 kJ/m ²	7.14 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J @Temperature 23.0 Â°C	6.64 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	33.1 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	18.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	82.5 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	45.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	105 Â°C	221 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	105 Â°C @Thickness 3.20 mm	221 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 - 4.0 ohm	2.0 - 4.0 ohm	ASTM D257

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