

SABIC Innovative Plastics LNP STAT-KON AE004 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP STAT-KON* AE004 is a compound based on ABS resin containing 20% 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-AE004-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Moisture Absorption	0.250 %	0.250 %	50% RH, 24 hrs; ASTM D570
	0.250 %	0.250 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Time 86400 sec	0.0010 - 0.0030 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0030 - 0.0060 cm/cm @Time 86400 sec	0.0030 - 0.0060 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	5 mm/min; ISO 527
	95.0 MPa	13800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.3 %	2.3 %	5 mm/min; ISO 527
	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	12.96 GPa	1880 ksi	50 mm/min; ASTM D638
Flexural Strength	131 MPa	19000 psi	1.3 mm/min, 50 mm span; ASTM D790
	152 MPa	22000 psi	ISO 178
Flexural Modulus	10.61 GPa	1539 ksi	1.3 mm/min, 50 mm span; ASTM D790
	12.75 GPa	1849 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.20 J/cm	5.99 ft-lb/in	ASTM D4812

Izod Impact, Notched (ISO) Mechanical Properties	6.00 kJ/m ² Metric	2.86 ft-lb/in ² English	80*10*4; ISO 180/1A Comments
Izod Impact, Unnotched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.3 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	11.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	71.5 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	39.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	105 $\text{Å}^\circ\text{C}$	221 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	101 $\text{Å}^\circ\text{C}$	214 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	213 $\text{Å}^\circ\text{C}$	415 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 10000 ohm	100 - 10000 ohm	ASTM D257

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