

SABIC Innovative Plastics LNP STAT-KON AD000 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* STAT-KON* AD000 is a compound based on ABS containing Carbon. 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-AD000-ABS.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
	1.119 g/cc	0.04043 lb/in ³	ASTM D792
Moisture Absorption	0.220 %	0.220 %	50% RH, 24 hrs; ASTM D570
	0.330 %	0.330 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 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	28.0 MPa	4060 psi	5 mm/min; ISO 527
	29.0 MPa	4210 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	30.0 MPa	4350 psi	5 mm/min; ISO 527
	31.0 MPa	4500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.9 %	3.9 %	5 mm/min; ISO 527
	6.4 %	6.4 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.5 %	1.5 %	5 mm/min; ISO 527
	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.31 GPa	335 ksi	1 mm/min; ISO 527
	2.38 GPa	345 ksi	50 mm/min; ASTM D638
Flexural Strength	59.0 MPa	8560 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.48 GPa	360 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	2.51 GPa Metric	364 ksi English	2 mm/min: ISO 178 Comments
Izod Impact, Notched	0.250 J/cm	0.468 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.69 J/cm	6.91 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	22.0 kJ/m ²	10.5 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	8.01 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.45 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	8.81 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.89 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	94.0 $\text{Å}^\circ\text{C}$	201 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	94.0 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	201 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	80.0 $\text{Å}^\circ\text{C}$	176 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	80.0 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	176 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1000 - 1.00e+6 ohm	1000 - 1.00e+6 ohm	ASTM D257

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