

SABIC Innovative Plastics LNP STAT-KON AE006 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* STAT-KON* AE006 is a compound based on ABS containing 30% Carbon Fiber. 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-AE006-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D792
Moisture Absorption	0.180 %	0.180 %	50% RH, 24 hrs; ASTM D570
	0.330 %	0.330 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00020 - 0.00040 cm/cm	0.00020 - 0.00040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	128 MPa	18600 psi	5 mm/min; ISO 527
	131 MPa	19000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.0 %	1.0 %	5 mm/min; ISO 527
	1.1 %	1.1 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.0 %	1.0 %	5 mm/min; ISO 527
Tensile Modulus	18.64 GPa	2704 ksi	1 mm/min; ISO 527
	20.0 GPa	2900 ksi	50 mm/min; ASTM D638
Flexural Strength	182 MPa	26400 psi	ISO 178
	190 MPa	27600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	17.6 GPa	2550 ksi	1.3 mm/min, 50 mm span; ASTM D790
	17.6 GPa	2550 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	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)	19.0 kJ/m ²	9.04 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J @Temperature 23.0 Â°C	5.90 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	34.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	18.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	38.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	21.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	104 Â°C	219 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	104 Â°C @Thickness 3.20 mm	219 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	100 Â°C	212 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	100 Â°C @Thickness 3.20 mm	212 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.0 - 4.0 ohm	1.0 - 4.0 ohm	ASTM D257

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