

SABIC Innovative Plastics LNP Stat-kon AE004E ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* Stat-Kon* AE004E is an ABS compound containing Glass Fiber. Characteristics of this grade are Statically Conductive and Easy Molding. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-kon-AE004E-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D 792
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.23 %	0.23 %	23°C / 50% RH; ISO 62
	0.15 %	0.15 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.00070 - 0.00090 cm/cm	0.00070 - 0.00090 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	5 mm/min; ISO 527
	110 MPa	16000 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	105 MPa	15200 psi	5 mm/min; ISO 527
	110 MPa	16000 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	1.4 %	1.4 %	Type I, 5 mm/min; ASTM D 638
	1.4 %	1.4 %	5 mm/min; ISO 527
Elongation at Yield	1.4 %	1.4 %	Type I, 5 mm/min; ASTM D 638
	1.4 %	1.4 %	5 mm/min; ISO 527
Tensile Modulus	12.5 GPa	1810 ksi	1 mm/min; ISO 527
	14.76 GPa	2141 ksi	50 mm/min; ASTM D 638
Flexural Strength	160 MPa	23200 psi	ISO 178

Mechanical Properties	Metric	English	Comments
	162 MPa	23500 psi	2 mm/min; ISO 178
Flexural Yield Strength	162 MPa	23500 psi	2 mm/min; ISO 178
Flexural Modulus	11.66 GPa	1691 ksi	2 mm/min; ISO 178
	11.8 GPa	1710 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.500 J/cm @Temperature 23.0 Â°C	0.937 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	3.11 J/cm @Temperature 23.0 Â°C	5.83 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	17.0 kJ/mÂ² @Temperature 23.0 Â°C	8.09 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.1 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	8.94 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	40.7 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	22.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	100 Â°C	212 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	100 Â°C @Thickness 3.20 mm	212 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	96.0 Â°C	205 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	95.0 Â°C	203 Â°F	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	unannealed; ASTM D 648 Comments
Electrical Properties	Metric	English	Comments
Surface Resistance	1.0 - 3.0 ohm	1.0 - 3.0 ohm	ASTM D 257

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