

SABIC Innovative Plastics LNP Stat-kon AE0039 ABS (Asia Pacific)

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* STAT-KON* AE0039 is a compound based on Acrylonitrile Butadiene Styrene resin containing Carbon Fiber, Flame Retardant. Added features of this material include: Electrically Conductive. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-kon-AE0039-ABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ASTM D 792
	1.26 g/cc	0.0455 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.31 %	0.31 %	23 ^o C / 50% RH; ISO 62
	0.30 %	0.30 %	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	@Time 86400 sec	@Time 24.0 hour	
	0.0030 cm/cm	0.0030 in/in	ASTM D 955
Linear Mold Shrinkage, Transverse	@Time 86400 sec	@Time 24.0 hour	
	0.0032 cm/cm	0.0032 in/in	ISO 294
Linear Mold Shrinkage, Transverse	@Time 86400 sec	@Time 24.0 hour	
	0.0016 cm/cm	0.0016 in/in	ISO 294
Linear Mold Shrinkage, Transverse	@Time 86400 sec	@Time 24.0 hour	
	0.0020 cm/cm	0.0020 in/in	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	ISO 527
	103 MPa	14900 psi	ASTM D 638
Elongation at Break	1.5 %	1.5 %	ASTM D 638
	2.3 %	2.3 %	ISO 527
Tensile Modulus	11.23 GPa	1629 ksi	50 mm/min; ASTM D 638
Flexural Strength	151 MPa	21900 psi	ASTM D 790
	164 MPa	23800 psi	ISO 178
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D 790

Mechanical Properties	Metric SI Units	English US Units	Comments ISO 178
Izod Impact, Notched	0.210 J/cm @Temperature 23.0 °C	0.393 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	1.48 J/cm @Temperature 23.0 °C	2.77 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	4.00 kJ/m ² @Temperature 23.0 °C	1.90 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	17.0 kJ/m ² @Temperature 23.0 °C	8.09 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	6.00 J @Temperature 23.0 °C	4.43 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	101 °C	214 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	101 °C @Thickness 3.20 mm	214 °F @Thickness 0.126 in	unannealed; ASTM D 648

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