

SABIC Innovative Plastics LNP Stat-kon EE006EM PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* Stat-kon* EE006EM is a compound based on Polyetherimide resin containing Carbon Fiber. Added features of this material include: Electrically Conductive, 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-EE006EM-PEI.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ISO 1183
	1.39 g/cc	0.0502 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.10 %	0.10 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.00080 cm/cm	0.00080 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0049 cm/cm	0.0049 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	194 MPa	28100 psi	ISO 527
	201 MPa	29200 psi	ASTM D 638
Tensile Strength, Yield	194 MPa	28100 psi	ISO 527
	201 MPa	29200 psi	ASTM D 638
Elongation at Break	1.3 %	1.3 %	ISO 527
	1.4 %	1.4 %	ASTM D 638
Elongation at Yield	1.2 %	1.2 %	ISO 527
	1.4 %	1.4 %	ASTM D 638
Tensile Modulus	18.79 GPa	2725 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric 21.37 GPa	English 3099 ksi	Comments 50 mm/min; ASTM D 638
Flexural Strength	265 MPa	38400 psi	ISO 178
	268 MPa	38900 psi	ASTM D 790
Flexural Modulus	15.16 GPa	2199 ksi	ASTM D 790
	15.4 GPa	2230 ksi	ISO 178
Izod Impact, Notched	0.420 J/cm @Temperature 23.0 Â°C	0.787 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	4.69 J/cm @Temperature 23.0 Â°C	8.79 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)	27.0 kJ/mÂ² @Temperature 23.0 Â°C	12.8 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
	9.00 J @Temperature 23.0 Â°C	6.64 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	28.8 Âµm/m-Â°C	16.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	29.0 Âµm/m-Â°C	16.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	12.0 Âµm/m-Â°C	6.67 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	12.6 Âµm/m-Â°C	7.00 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (67 psi)	211 Â°C @Thickness 3.20 mm	412 Â°F @Thickness 0.126 in	Flatw 80*10*4 sp=64mm; ISO 75/Bf unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	207 Â°C @Thickness 3.20 mm	405 Â°F @Thickness 0.126 in	Flatw 80*10*4 sp=64mm; ISO 75/Af unannealed; ASTM D 648

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