

SABIC Innovative Plastics LNP Stat-kon EE008E PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP STAT-KON* EE008E is a compound based on Polyetherimide resin containing Carbon Fiber. Added features of this material include:
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-EE008E-PEI.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ASTM D 792
	1.44 g/cc	0.0520 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.14 %	0.14 %	23Â°C / 50% RH; ISO 62
	0.11 % @Time 86400 sec	0.11 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Transverse	0.00080 - 0.010 cm/cm	0.00080 - 0.010 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	183 MPa	26500 psi	5 mm/min; ISO 527
	190 MPa	27600 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	183 MPa	26500 psi	5 mm/min; ISO 527
	189 MPa	27400 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	0.80 %	0.80 %	5 mm/min; ISO 527
	0.90 %	0.90 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	0.80 %	0.80 %	5 mm/min; ISO 527
	0.90 %	0.90 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	26.32 GPa	3817 ksi	1 mm/min; ISO 527
	28.0 GPa	4060 ksi	50 mm/min; ASTM D 638
Flexural Strength	272 MPa	39500 psi	ISO 178
	297 MPa	43100 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Yield Strength			1.3 mm/min, 50 mm span; ASTM D

Mechanical Properties	296 MPa Metric	42900 psi English	790 Comments
Flexural Modulus	22.76 GPa	3301 ksi	2 mm/min; ISO 178
	24.4 GPa	3540 ksi	1.3 mm/min, 50 mm span; ASTM D 790
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	4.00 J/cm @Temperature 23.0 Â°C	7.49 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	3.00 kJ/mÂ² @Temperature 23.0 Â°C	1.43 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	23.0 kJ/mÂ² @Temperature 23.0 Â°C	10.9 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	6.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	3.33 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	26.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	14.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	205 Â°C	401 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	200 Â°C @Thickness 3.20 mm	392 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	197 Â°C	387 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	191 Â°C @Thickness 3.20 mm	376 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.0 - 3.0 ohm	1.0 - 3.0 ohm	ASTM D 257

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