

SABIC Innovative Plastics LNP Stat-kon EE005 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP STAT-KON* EE005 is a compound based on Polyetherimide resin containing Carbon Fiber. Added features of this material include:

Electrically Conductive. 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-EE005-PEI.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183
	1.365 g/cc	0.04931 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.23 %	0.23 %	23 ^o C / 50% RH; ISO 62
	0.16 % @Time 86400 sec	0.16 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 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
	200 MPa	29000 psi	ASTM D 638
Elongation at Break	2.1 %	2.1 %	ISO 527
	2.1 %	2.1 %	ASTM D 638
Tensile Modulus	11.7 GPa	1700 ksi	1 mm/min; ISO 527
	12.33 GPa	1788 ksi	50 mm/min; ASTM D 638
Flexural Strength	246 MPa	35700 psi	ISO 178
	277 MPa	40200 psi	ASTM D 790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	14.32 GPa	2077 ksi	ASTM D 790
	15.01 GPa	2177 ksi	ISO 178
Izod Impact, Notched	0.530 J/cm @Temperature 23.0 Â°C	0.993 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	4.48 J/cm @Temperature 23.0 Â°C	8.39 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	6.00 kJ/mÂ² @Temperature 23.0 Â°C	2.86 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	29.0 kJ/mÂ² @Temperature 23.0 Â°C	13.8 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	7.00 J	5.16 ft-lb	Multiaxial Impact; ISO 6603
	10.0 J @Temperature 23.0 Â°C	7.38 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	10.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	19.2 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	10.7 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	27.1 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	15.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	27.1 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	15.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	206 Â°C	403 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	207 Â°C @Thickness 3.20 mm	405 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 1.00e+6 ohm-cm	100 - 1.00e+6 ohm-cm	ASTM D 257
Surface Resistance	100 ohm - 1e+05	100 ohm - 1e+05	ASTM D 257

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