

LNP™ STAT-KON™ EE004 compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP* Stat-kon* EE004 is a compound based on Polyetherimide resin containing Carbon Fiber. Added features of this material include: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound EC-1004

Product reorder name: EE004

General Information			
UL YellowCard	E45329-101282613		
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.050 - 0.25	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15200	MPa	ISO 527-2/1
Tensile Stress (Break)	195	MPa	ISO 527-2/5
Tensile Strain (Break)	1.7	%	ISO 527-2/5
Flexural Modulus ²	12300	MPa	ISO 178
Flexural Stress	264	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ³ (23°C)	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	30	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, unannealed, 64.0mm span	217	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	214	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	1.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	4.7E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+4	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	343 - 354	°C	

Middle Temperature	354 - 366	°C
Front Temperature	366 - 377	°C
Processing (Melt) Temp	360 - 366	°C
Mold Temperature	121 - 149	°C
Back Pressure	0.344 - 0.689	MPa
Screw Speed	60 - 100	rpm

NOTE

1.	Tensile Bar
2.	2.0 mm/min
3.	80*10*4
4.	80*10*4
5.	80*10*4 mm

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