

LNP™ STAT-KON™ EE005E compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP STAT-KON* EE005E is a compound based on Polyetherimide resin containing 25% Carbon Fiber. Added features of this material include: Easy Molding, Electrically Conductive.

Also known as: LNP* STAT-KON* Compound EC-1005 EM

Product reorder name: EE005E

General Information			
UL YellowCard	E121562-101343414		
Filler / Reinforcement	Carbon Fiber,25% Filler by Weight		
Features	Electrically Conductive		
	Good Moldability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.37	g/cm ³	ASTM D792
--	1.36	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.050 to 0.30	%	ASTM D955
Across Flow : 24 hr	0.30 to 0.50	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.10 to 0.30	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.16	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.23	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	18300	MPa	ASTM D638
--	18200	MPa	ISO 527-2/1
Tensile Strength			
Break ²	200	MPa	ASTM D638
Break	200	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.4	%	ASTM D638
Break	1.4	%	ISO 527-2/5
Flexural Modulus			
--	14300	MPa	ASTM D790
--	15000	MPa	ISO 178
Flexural Strength			

--	278	MPa	ASTM D790
--	277	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ⁴	6.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	450	J/m	ASTM D4812
23°C ⁵	30	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	10.4	J	ASTM D3763
--	7.14	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	207	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁶	208	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	1.9E-5	cm/cm/°C	
Transverse : -40 to 40°C	2.7E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+5	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+6	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	343 to 354	°C	
Middle Temperature	354 to 366	°C	
Front Temperature	366 to 377	°C	
Processing (Melt) Temp	360 to 366	°C	
Mold Temperature	121 to 149	°C	
Back Pressure	0.344 to 0.689	MPa	
Screw Speed	60 to 100	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	80*10*4		
5.	80*10*4		
6.	80*10*4 mm		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

