

LNP™ STAT-KON™ DE0029E compound

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

LNP STAT-KON* DE0029E is a compound based on Polycarbonate resin containing Carbon Fiber. Added features of this material include: Easy Molding, Flame Retardant, Electrically Conductive.
Also known as: LNP* STAT-KON* Compound DC-1002 EM FR PB
Product reorder name: DE0029E

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Electrically Conductive		
	Flame Retardant		
	Good Moldability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm ³	ISO 1183, ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.10 to 0.30	%	ASTM D955
Across Flow : 24 hr	0.20 to 0.40	%	ASTM D955
Across Flow : 24 hr	0.29 to 0.43	%	ISO 294-4
Flow : 24 hr	0.060 to 0.32	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.16	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8270	MPa	ASTM D638
--	7800	MPa	ISO 527-2/1
Tensile Strength			
Break	110	MPa	ASTM D638
Break	117	MPa	ISO 527-2
Tensile Elongation			
Break	2.5	%	ASTM D638
Break	2.4	%	ISO 527-2
Flexural Modulus			
--	7580	MPa	ASTM D790
--	8650	MPa	ISO 178
Flexural Strength			
--	179	MPa	ASTM D790

--	183	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	61	J/m	ASTM D256
23°C ²	7.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	450	J/m	ASTM D4812
23°C ³	30	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	17.1	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	144	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	141	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	139	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	2.4E-5	cm/cm/°C	
Transverse : -40 to 40°C	3.5E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 to 304	°C	
Middle Temperature	310 to 321	°C	
Front Temperature	321 to 332	°C	
Processing (Melt) Temp	304 to 327	°C	
Mold Temperature	82.2 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	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

