

LNP™ STAT-KON™ DE0029 compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP STAT-KON DE0029 is a compound based on Polycarbonate resin containing Flame Retardant, Carbon Fiber. Added features of this material include: Electrically Conductive, Flame Retardant.
Also known as: LNP* STAT-KON* Compound DC-1002 FR
Product reorder name: DE0029

General Information			
UL YellowCard	E207780-101282817		
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.10 - 0.30	%	ASTM D955
Transverse flow: 24 hours	0.30 - 0.50	%	ASTM D955
Vertical flow direction: 24 hours	0.39	%	ISO 294-4
Flow direction: 24 hours	0.19	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Fracture	105	MPa	ASTM D638
Fracture	104	MPa	ISO 527-2
Tensile Elongation			
Fracture	5.9	%	ASTM D638
Fracture	6.2	%	ISO 527-2
Flexural Modulus			
--	7580	MPa	ASTM D790
--	7400	MPa	ISO 178
Flexural Strength			
--	159	MPa	ASTM D790
--	149	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	59	J/m	ASTM D256
23°C ¹	5.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			

23°C	490	J/m	ASTM D4812
23°C ²	32	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	144	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ³	145	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	142	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	142	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 - 1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+4 - 1.0E+7	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 - 304	°C	
Middle Temperature	310 - 321	°C	
Front Temperature	321 - 332	°C	
Processing (Melt) Temp	304 - 327	°C	
Mold Temperature	82.2 - 110	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	80*10*4		
2.	80*10*4		
3.	80*10*4 mm		
4.	80*10*4 mm		

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