

LNP™ STAT-KON™ DEL329XF compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP STAT-KON* DEL329XF is a compound based on Polycarbonate resin containing Carbon Fiber, Flame Retardant, PTFE. Added features of this material include: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound DCL-4032 FR

Product reorder name: DEL329XF

General Information			
UL YellowCard	E207780-101343855		
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	PTFE lubricant		
Features	Conductivity		
	Lubrication		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.35	g/cm ³	ASTM D792
--	1.36	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/6.7 kg)	20.0	cm ³ /10min	ISO 1133
Molding Shrinkage			
Flow: 24 hours	0.10 - 0.20	%	ASTM D955
Transverse flow: 24 hours	0.40 - 0.50	%	ASTM D955
Vertical flow direction: 24 hours	0.45 - 0.52	%	ISO 294-4
Flow direction: 24 hours	0.14 - 0.19	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.090	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.14	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7170	MPa	ASTM D638
--	7300	MPa	ISO 527-2/1
Tensile Strength			
Fracture	92.0	MPa	ASTM D638
Fracture	94.0	MPa	ISO 527-2
Tensile Elongation			
Fracture	2.0	%	ASTM D638

Fracture	1.9	%	ISO 527-2
Flexural Modulus			
--	6480	MPa	ASTM D790
--	7300	MPa	ISO 178
Flexural Strength			
--	138	MPa	ASTM D790
--	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	69	J/m	ASTM D256
23°C ²	7.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	320	J/m	ASTM D4812
23°C ³	22	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	15.2	J	ASTM D3763
--	2.72	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	143	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	141	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	139	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	138	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	2.4E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	4.2E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+6	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, Testing by SABIC)	V-0		UL 94
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.	50 mm/min
2.	80*10*4
3.	80*10*4
4.	80*10*4 mm
5.	80*10*4 mm

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