

LNP™ STAT-KON™ DEL339XF compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP STAT-KON DEL339XF is a compound based on Polycarbonate resin containing PTFE, Flame Retardant, Carbon Fiber. Added features of this material include: Electrically Conductive, Flame Retardant, Internally Lubricated.
Also known as: LNP* STAT-KON* Compound DCL-4033 FR
Product reorder name: DEL339XF

General Information			
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			
--	1.39	g/cm ³	ASTM D792
--	1.38	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.20 - 0.40	%	ASTM D955
Transverse flow: 24 hours	0.30 - 0.50	%	ASTM D955
Vertical flow direction: 24 hours	0.40	%	ISO 294-4
Flow direction: 24 hours	0.31	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	10300	MPa	ASTM D638
--	11000	MPa	ISO 527-2/1
Tensile Strength			
Yield	114	MPa	ASTM D638
Yield	112	MPa	ISO 527-2
Fracture	114	MPa	ASTM D638
Fracture	112	MPa	ISO 527-2
Tensile Elongation			
Yield	1.8	%	ASTM D638
Yield	1.6	%	ISO 527-2
Fracture	1.8	%	ASTM D638
Fracture	1.6	%	ISO 527-2

Flexural Modulus			
--	8960	MPa	ASTM D790
--	9500	MPa	ISO 178
Flexural Strength			
--	179	MPa	ASTM D790
--	164	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	59	J/m	ASTM D256
23°C ²	5.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	360	J/m	ASTM D4812
23°C ³	24	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	12.8	J	ASTM D3763
--	3.40	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	141	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	142	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	140	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	141	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	6.3E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	6.2E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	1.4E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+7 - 1.0E+9	ohms	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.	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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