

LNP™ STAT-KON™ DEL22P compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON* DEL22P is a compound based on Polycarbonate resin containing PTFE, Carbon Fiber. Added features of this material include: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound DCL-4022 EP

Product reorder name: DEL22P

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	PTFE lubricant		
Features	Conductivity		
	Lubrication		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			Internal method
Flow	0.10 - 0.30	%	Internal method
Transverse flow ¹	0.40 - 0.60	%	Internal method
Water Absorption			
24 hr, 50% RH	0.10	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.18	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ²	7900	MPa	ASTM D638
--	8170	MPa	ISO 527-2/1
Tensile Strength			
Fracture	100	MPa	ASTM D638
Fracture	101	MPa	ISO 527-2
Tensile Elongation (Break)	2.0	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	5690	MPa	ASTM D790
--	152	MPa	ISO 178
Flexural Strength	152	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.55		ASTM D3702 Modified
With Self-Static	0.52		ASTM D3702 Modified
Wear Factor - Washer	15.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	75	J/m	ASTM D256
23°C ³	6.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	280	J/m	ASTM D4812
23°C ⁴	34	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	13.0	J	ASTM D3763
--	102	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	134	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	143	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	1.4E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	1.5E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	7.6E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+6	ohms	IEC 60093
Volume Resistivity	1.0E+2	ohms·cm	IEC 60093
NOTE			
1.	0.75 to 2.3 mm		
2.	50 mm/min		
3.	80*10*4		
4.	80*10*4		
5.	80*10*4 mm		

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