

LNP™ STAT-KON™ DEL36 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON DEL36 is a compound based on Polycarbonate resin containing 30% Carbon Fiber, 15% PTFE. Added features include: Electrically Conductive, Wear Resistant.

Also known as: LNP* STAT-KON* Compound DCL-4036

Product reorder name: DEL36

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Electrically Conductive		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.020 to 0.040	%	
Across Flow : 24 hr	0.30 to 0.50	%	
Water Absorption			
24 hr, 50% RH	0.080	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.12	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	21200	MPa	ASTM D638
--	15700	MPa	ISO 527-2/1
Tensile Strength			
Break ²	123	MPa	ASTM D638
Break	123	MPa	ISO 527-2/5
Tensile Strain			
Yield	0.0	%	ISO 527-2/5
Break ³	1.4	%	ASTM D638
Break	1.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	13300	MPa	ASTM D790
-- ⁵	14400	MPa	ISO 178
Flexural Stress			
--	193	MPa	ISO 178

Break, 50.0 mm Span ⁶	184	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	73	J/m	ASTM D256
23°C ⁷	7.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	480	J/m	ASTM D4812
23°C ⁸	30	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	16.0	J	ASTM D3763
--	4.40	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	149	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	150	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	144	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	144	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.6E-5	cm/cm/°C	
Transverse : -30 to 30°C	3.7E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0 to 4.0	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.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		

9.	80*10*4 mm
10.	80*10*4 mm

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