LNP™ STAT-KON™ DEL33EC compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON* DEL33EC is a compound based on Polycarbonate resin containing 15% Carbon Fiber, 15% PTFE. Added features include: Clean Compounding System, Electrically Conductive, Wear Resistant, Easy Molding.
Also known as: LNP* STAT-KON* Compound DCL-4033 EM CCS
Product reorder name: DEL33EC

General Information	
Filler / Reinforcement	Carbon Fiber,15% Filler by Weight
Additive	PTFE Lubricant (15%)
Features	Electrically Conductive Good Moldability Good Wear Resistance Low (to None) Ion Content Lubricated
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm³	ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.10	%	ASTM D955
Across Flow : 24 hr	0.50	%	ASTM D955
Across Flow : 24 hr	0.46	%	ISO 294-4
Flow : 24 hr	0.14	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.15	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.21	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- [1]	8480	MPa	ASTM D638
--	7890	MPa	ISO 527-2/1
Tensile Strength			
Break	97.5	MPa	ASTM D638
Break	96.7	MPa	ISO 527-2
Tensile Elongation			
Break	3.2	%	ASTM D638
Break	3.5	%	ISO 527-2
Flexural Modulus			
--	7310	MPa	ASTM D790

--	7840	MPa	ISO 178
Flexural Strength			
--	160	MPa	ASTM D790
--	161	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	85	J/m	ASTM D256
23°C [2]	9.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	420	J/m	ASTM D4812
23°C [3]	34	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	15.4	J	ASTM D3763
--	4.02	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	145	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [4]	147	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	141	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [5]	141	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	1.8E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	4.6E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	4.7E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+2 to 1.0E+6	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.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

5.	80*10*4 mm

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