LNP™ STAT-KON™ DD0001I compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP* STAT-KON* DD0001I is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include: ECO FR, High Impact, Electrically Conductive.
Also known as: LNP* STAT-KON* Compound EXSK-D-0059
Product reorder name: DD0001I

General Information			
Filler / Reinforcement	Carbon Powder		
Features	ECO Compliant Electrically Conductive High Impact Resistance		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.28	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.40 to 0.60	%	
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]	3600	MPa	ASTM D638
--	3500	MPa	ISO 527-2/1
Tensile Strength			
Yield [2]	65.0	MPa	ASTM D638
Yield	64.0	MPa	ISO 527-2/5
Break [3]	50.0	MPa	ASTM D638
Break	52.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield [4]	3.6	%	ASTM D638
Yield	3.5	%	ISO 527-2/5
Break [5]	13	%	ASTM D638
Break	8.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [6]	3700	MPa	ASTM D790
-- [7]	3430	MPa	ISO 178

Flexural Stress			
--	109	MPa	ISO 178
Yield, 50.0 mm Span [8]	114	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	46	J/m	ASTM D256
23°C [9]	5.3	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	1200	J/m	ASTM D4812
23°C [10]	62	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	46.0	J	ASTM D3763
--	11.0	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	91.0	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [11]	91.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	84.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [12]	83.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	5.9E-5	cm/cm/°C	
Transverse : -30 to 30°C	6.0E-5	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	2.0 to 5.0	ohms	ASTM D257
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	249 to 260	°C	
Middle Temperature	254 to 266	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	254 to 288	°C	
Mold Temperature	37.8 to 65.6	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		

7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*4
10.	80*10*4
11.	80*10*4 mm
12.	80*10*4 mm

Recommended distributors for this material

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