LNP™ STAT-KON™ DD0009P compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON* DD0009P is a compound based on Polycarbonate resin containing Carbon Powder, Flame Retardant. Added features of this material include: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound D-EP V-1
Product reorder name: DD0009P

General Information			
UL YellowCard	E207780-101345222		
Filler / Reinforcement	Carbon powder		
Features	Conductivity Flame retardancy		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.29	g/cm³	ASTM D792
Molding Shrinkage			
Flow: 24 hours	0.80	%	ASTM D955
Transverse flow: 24 hours	0.80	%	ASTM D955
Vertical flow direction: 24 hours	0.80	%	ISO 294-4
Flow direction: 24 hours	0.78	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.13	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.23	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	2620	MPa	ASTM D638
--	2800	MPa	ISO 527-2/1
Tensile Strength			
Yield	64.1	MPa	ASTM D638
Yield	59.9	MPa	ISO 527-2
Fracture	54.7	MPa	ASTM D638
Fracture	53.6	MPa	ISO 527-2
Tensile Elongation			
Yield	4.8	%	ASTM D638
Yield	4.4	%	ISO 527-2
Fracture	10	%	ASTM D638
Fracture	9.5	%	ISO 527-2
Flexural Modulus			

--	2830	MPa	ASTM D790
--	3000	MPa	ISO 178
Flexural Strength	103	MPa	ASTM D790, ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	110	J/m	ASTM D256
23°C [2]	9.5	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	2100	J/m	ASTM D4812
23°C [3]	130	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	12.5	J	ASTM D3763
--	35.0	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	140	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	130	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [4]	128	°C	ISO 75-2/Af
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+2 - 1.0E+6	ohms	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm, Testing by SABIC)	V-1		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	121	°C	
Drying Time	3.0 - 4.0	hr	
Drying Time, Maximum	48	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 - 60	%	
Rear Temperature	249 - 271	°C	
Middle Temperature	260 - 282	°C	
Front Temperature	271 - 293	°C	
Nozzle Temperature	266 - 288	°C	
Processing (Melt) Temp	271 - 293	°C	
Mold Temperature	71.1 - 93.3	°C	
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	40 - 70	rpm	
Vent Depth	0.025 - 0.076	mm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

Recommended distributors for this material

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