LNP™ STAT-KON™ DD0009 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON DD0009 is a compound based on Polycarbonate resin containing Flame Retardant, Carbon Powder. Added features of this material include: Electrically Conductive, Flame Retardant.
Also known as: LNP* STAT-KON* Compound D-FR
Product reorder name: DD0009

General Information			
UL YellowCard	E207780-101283852		
Filler / Reinforcement	Carbon powder		
Features	Conductivity Flame retardancy		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.32	g/cm³	ASTM D792
Molding Shrinkage			
Flow: 24 hours	0.80	%	ASTM D955
Transverse flow: 24 hours	0.70	%	ASTM D955
Vertical flow direction: 24 hours	0.72	%	ISO 294-4
Flow direction: 24 hours	0.75	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.18	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.27	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	2830	MPa	ASTM D638
--	2810	MPa	ISO 527-2/1
Tensile Strength			
Yield	61.9	MPa	ASTM D638
Yield	62.8	MPa	ISO 527-2
Fracture	53.9	MPa	ASTM D638
Fracture	57.1	MPa	ISO 527-2
Tensile Elongation			
Yield	1.2	%	ASTM D638
Yield	4.2	%	ISO 527-2
Fracture	5.6	%	ASTM D638
Fracture	7.5	%	ISO 527-2
Flexural Modulus			

--	2830	MPa	ASTM D790
--	2880	MPa	ISO 178
Flexural Strength			
--	108	MPa	ASTM D790
--	102	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	68	J/m	ASTM D256
23°C [2]	6.6	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	1600	J/m	ASTM D4812
23°C [3]	71	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	10.9	J	ASTM D3763
--	5.70	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	141	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span [4]	139	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	133	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [5]	131	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	5.4E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	5.7E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+5 - 1.0E+10	ohms	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.70 mm, Testing by SABIC)	V-0		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	249 - 260	°C	
Middle Temperature	254 - 266	°C	
Front Temperature	260 - 271	°C	
Processing (Melt) Temp	254 - 288	°C	
Mold Temperature	37.8 - 65.6	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 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

Recommended distributors for this material

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