

LNP™ STAT-KON™ DD0009XP compound

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

LNP STAT-KON D-FR is a compound based on Polycarbonate resin containing Carbon. Added features of this grade include: Flame Retardant, Electrically Conductive.
Also known as: LNP* STAT-KON* Compound D-FR
Product reorder name: DD0009XP

General Information			
UL YellowCard	E121562-101283903		
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.50 - 0.70	%	ASTM D955
Transverse flow: 24 hours	0.60 - 0.80	%	ASTM D955
Water Absorption			
24 hr, 50% RH	0.13	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.21	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2510	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	69.0	MPa	ASTM D638
Yield	58.0	MPa	ISO 527-2/5
Fracture ²	46.0	MPa	ASTM D638
Fracture	50.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ³	4.7	%	ASTM D638
Yield	4.7	%	ISO 527-2/5
Fracture ⁴	13	%	ASTM D638
Fracture	11	%	ISO 527-2/5
Flexural Modulus ⁵	2520	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	140	J/m	ASTM D256
23°C ⁶	9.0	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	1700	J/m	ASTM D4812
23°C ⁷	150	kJ/m ²	ISO 180/1U
Multi-Axial Instrumented Impact Energy	33.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	139	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁸	138	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	130	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁹	126	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0 - 8.0	ohms	ASTM D257
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.	Type 1, 5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	Type 1, 5.0 mm/min		
5.	2.0 mm/min		
6.	80*10*4		
7.	80*10*4		
8.	80*10*4 mm		
9.	80*10*4 mm		

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