

LNP™ STAT-KON™ KD000 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP STAT-KON KD000* is also know as: LNP STAT-KON K, LNP STAT-KON KXC. It is a compound based on Acetal resin containing Carbon Powder. Added features of this material include: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound K-

Product Reorder name: KD000

General Information			
UL YellowCard	E207780-101343865		
Filler / Reinforcement	Carbon powder		
Features	Conductivity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 60°C	1.2 - 1.3	%	Internal method
Flow: 100°C	1.5 - 1.6	%	Internal method
Flow: 24 hours	1.5 - 3.5	%	ASTM D955
Lateral flow: 60°C	0.90 - 1.0	%	Internal method
Lateral flow: 100°C	1.1 - 1.2	%	Internal method
Transverse flow: 24 hours	1.5 - 3.5	%	ASTM D955
Vertical flow direction: 24 hours	1.5 - 3.5	%	ISO 294-4
Flow direction: 24 hours	1.5 - 3.5	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.28	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.33	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3500	MPa	ASTM D638
--	3000	MPa	ISO 527-2/1
Tensile Strength			
Yield	58.0	MPa	ASTM D638
Yield	53.0	MPa	ISO 527-2
Fracture	54.0	MPa	ASTM D638
Fracture	47.0	MPa	ISO 527-2
Tensile Elongation			
Yield	3.6	%	ASTM D638
Yield	5.0	%	ISO 527-2
Fracture	7.2	%	ASTM D638

Fracture	20	%	ISO 527-2
Flexural Modulus			
--	3250	MPa	ASTM D790
--	3200	MPa	ISO 178
Flexural Strength			
--	95.0	MPa	ASTM D790
--	82.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	35	J/m	ASTM D256
23°C ²	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	800	J/m	ASTM D4812
23°C ³	37	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	5.00	J	ASTM D3763
--	1.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	108	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	105	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	1.0E-4	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	1.0E-4	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+4	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.700 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Rear Temperature	180 - 190	°C	
Middle Temperature	190 - 200	°C	
Front Temperature	200 - 220	°C	
Processing (Melt) Temp	190 - 215	°C	
Mold Temperature	60.0 - 110	°C	
Back Pressure	0.200 - 0.400	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		

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