

LNP™ STAT-KON™ KX96321 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP STAT-KON KX96321 is a compound based on Acetal resin containing Proprietary Filler(s). Added feature of this material is: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound PDX-K-96321

Product reorder name: KX96321

General Information			
UL YellowCard	E121562-101282578		
Filler / Reinforcement	Proprietary		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	3.0 to 5.0	%	
Across Flow : 24 hr	2.0 to 4.0	%	
Water Absorption			
24 hr, 50% RH	0.18	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.19	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2860	MPa	ASTM D638
--	2900	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	47.0	MPa	ASTM D638
Yield	44.0	MPa	ISO 527-2/5
Break ³	45.0	MPa	ASTM D638
Break	42.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	5.0	%	ASTM D638
Yield	4.0	%	ISO 527-2/5
Break ⁵	13	%	ASTM D638
Break	7.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2650	MPa	ASTM D790
-- ⁷	2600	MPa	ISO 178
Flexural Stress	71.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	35	J/m	ASTM D256
23°C ⁸	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	510	J/m	ASTM D4812
23°C ⁹	31	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	4.00	J	ASTM D3763
--	1.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	159	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	141	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	106	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	86.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.0E-4	cm/cm/°C	
Transverse : -30 to 30°C	9.5E-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	hr	
Rear Temperature	177 to 188	°C	
Middle Temperature	193 to 204	°C	
Front Temperature	210 to 221	°C	
Processing (Melt) Temp	199 to 216	°C	
Mold Temperature	82.2 to 110	°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.	80*10*4		
9.	80*10*4		
10.	80*10*4 mm		
11.	80*10*4 mm		

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Recommended distributors for this material

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