

LNP™ STAT-KON™ KS000MXL compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP* STAT-KON* KS000MXL is a compound based on Acetal resin containing Stainless Steel. Added features of this grade include: Low Extractable, Metal Detectable.

Also known as: LNP* STAT-KON* Compound KS000MXL

Product reorder name: KS000MXL

General Information			
Filler / Reinforcement	Stainless Steel Fiber		
Features	Low Extractables		
	Metal Detectable		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.73	g/cm ³	
--	1.72	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	2.8	%	
Across Flow : 24 hr	2.5	%	
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			
-- ¹	3010	MPa	ASTM D638
--	2880	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	52.0	MPa	ASTM D638
Yield	52.0	MPa	ISO 527-2/5
Break ³	51.0	MPa	ASTM D638
Break	51.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	11	%	ASTM D638
Yield	11	%	ISO 527-2/5
Break ⁵	27	%	ASTM D638
Break	26	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2680	MPa	ASTM D790
-- ⁷	2590	MPa	ISO 178

Flexural Stress	75.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	58	J/m	ASTM D256
23°C ⁸	6.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	930	J/m	ASTM D4812
23°C ⁹	57	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	5.20	J	ASTM D3763
--	1.32	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	158	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	149	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	104	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	95.0	°C	ISO 75-2/ Af
CLTE			ASTM D696
Flow : -30 to 30°C	9.9E-5	cm/cm/°C	
Transverse : -30 to 30°C	9.8E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.9E+12	ohms	ASTM D257
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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