

LNP™ STAT-KON™ KE004 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP STAT-KON KE004 is a compound based on Acetal Copolymer resin containing 20% Carbon Fiber. Added features of this material include: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound KC-1004

Product reorder name: KE004

General Information			
UL YellowCard	E121562-101284439		
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.60 to 0.80	%	ASTM D955
Across Flow : 24 hr	1.6 to 1.8	%	ASTM D955
Across Flow : 24 hr	1.7	%	ISO 294-4
Flow : 24 hr	0.69	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	14500	MPa	ASTM D638
--	13000	MPa	ISO 527-2/1
Tensile Strength			
Yield	121	MPa	ASTM D638
Yield	110	MPa	ISO 527-2
Break	121	MPa	ASTM D638
Break	110	MPa	ISO 527-2
Tensile Elongation			
Yield	1.6	%	ASTM D638
Yield	1.4	%	ISO 527-2
Break	1.6	%	ASTM D638
Break	1.4	%	ISO 527-2
Flexural Modulus			
--	11000	MPa	ASTM D790
--	11500	MPa	ISO 178
Flexural Strength			
--	152	MPa	ASTM D790

--	160	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	48	J/m	ASTM D256
23°C ²	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	430	J/m	ASTM D4812
23°C ³	26	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	10.9	J	ASTM D3763
--	2.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	162	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	163	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	160	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	160	°C	ISO 75-2/ Af
CLTE			
Flow : -40 to 40°C	6.8E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	6.9E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	3.1E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT