

LNP™ STAT-KON™ KEL22A compound

Acetal (POM) Homopolymer

SABIC Innovative Plastics Europe

Message:

LNP LUBRICOMP KEL22A is a compound based on Acetal Homopolymer resin containing Carbon Fiber, PTFE. Added features include: Electrically Conductive, Internally Lubricated.

General Information			
Filler / Reinforcement	Carbon Fiber		
Additive	PTFE Lubricant		
Features	Electrically Conductive Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.33	%	Internal Method
Water Absorption (23°C, 24 hr)	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8400	MPa	ISO 527-2/1
Tensile Stress (Yield)	56.0	MPa	ISO 527-2/5
Tensile Strain (Yield)	1.0	%	ISO 527-2/5
Flexural Modulus ¹	6100	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	89.0	MPa	
-- ⁴	82.0	MPa	
Flexural Strain at Break ⁵	7.9	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁶ (23°C)	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁷ (23°C)	20	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸ (1.8 MPa, Unannealed, 64.0 mm Span)	135	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	2.0E-5	cm/cm/°C	
Transverse : 23 to 60°C	1.2E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+3	ohms	ASTM D257
Injection	Nominal Value	Unit	Test Method
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		
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1.	2.0 mm/min
2.	2.0 mm/min
3.	Yield
4.	Break
5.	2 mm/min
6.	80*10*4
7.	80*10*4
8.	80*10*4 mm

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Recommended distributors for this material

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

