

LNP™ STAT-KON™ KEL32 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics Europe

Message:

LNP LUBRICOMP KEL32 is a compound based on Acetal Copolymer 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	1.51	g/cm³	ISO 1183
Molding Shrinkage - Flow	0.32	%	Internal Method
Water Absorption (23°C, 24 hr)	0.31	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8400	MPa	ISO 527-2/1
Tensile Stress (Break)	51.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	%	ISO 527-2/5
Flexural Modulus ¹	6000	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	80.0	MPa	
-- ⁴	62.0	MPa	
Flexural Strain at Break ⁵	6.4	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁶ (23°C)	5.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength ⁷ (23°C)	15	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸ (1.8 MPa, Unannealed, 64.0 mm Span)	141	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+4	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.	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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