

LNP™ STAT-KON™ KEP33 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP STAT-KON* KEP33 is a compound based on Acetal resin containing Silicone, Carbon Fiber, PTFE. Added features of this material include: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound KCL-4533
Product reorder name: KEP33

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	PTFE silicone lubricant		
Features	Conductivity		
	Lubrication		
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 hours	0.40 - 0.60	%	ASTM D955
Transverse flow: 24 hours	0.70 - 0.90	%	ASTM D955
Vertical flow direction: 24 hours	0.070 - 0.090	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.21	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.32	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	10200	MPa	ASTM D638
--	10200	MPa	ISO 527-2/1
Tensile Strength			
Fracture	77.5	MPa	ASTM D638
Fracture	74.0	MPa	ISO 527-2
Tensile Elongation			
Fracture	1.1	%	ASTM D638
Fracture	1.0	%	ISO 527-2
Flexural Modulus			
--	7150	MPa	ASTM D790
--	8270	MPa	ISO 178
Flexural Strength			
--	114	MPa	ASTM D790
--	107	MPa	ISO 178

Coefficient of Friction		ASTM D3702 Modified	
With self-dynamics	0.36	ASTM D3702 Modified	
With Self-Static	0.31	ASTM D3702 Modified	
Wear Factor - Washer	202	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	32	J/m	ASTM D256
23°C ²	3.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	130	J/m	ASTM D4812
23°C ³	17	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	7.20	J	ASTM D3763
--	4.02	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	66.7	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	155	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 - 1.0E+4	ohms	ASTM D257
Volume Resistivity	10 - 1.0E+4	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	177 - 188	°C	
Middle Temperature	193 - 204	°C	
Front Temperature	210 - 221	°C	
Processing (Melt) Temp	199 - 216	°C	
Mold Temperature	82.2 - 110	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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