

LNP™ STAT-KON™ KD000EI compound

Acetal (POM) Copolymer

SABIC Innovative Plastics Europe

Message:

LNP STAT-KON KD000EI is a compound based on Acetal Copolymer resin containing Carbon Powder. Added features include: Electrically Conductive, Impact Modified.

Also known as: LNP* STAT-KON* Compound K-HI NAT

Product reorder name: KD000EI

General Information			
Filler / Reinforcement	Carbon Powder		
Additive	Impact Modifier		
Features	Electrically Conductive		
	Impact Modified		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Molding Shrinkage - Flow	2.1	%	Internal Method
Water Absorption (23°C, 24 hr)	1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1700	MPa	ISO 527-2/1
Tensile Stress (Yield)	34.0	MPa	ISO 527-2/5
Tensile Strain (Yield)	7.9	%	ISO 527-2/5
Flexural Modulus ¹	1700	MPa	ISO 178
Flexural Stress	45.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	7.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	45	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed, 64.0 mm Span	123	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	67.0	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	7.8E-5	cm/cm/°C	
Transverse : 23 to 60°C	7.7E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+5	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm, Testing by SABIC)	HB		UL 94

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.	80*10*4	
3.	80*10*4	
4.	80*10*4 mm	

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