

LNP™ STAT-KON™ KE002 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics Europe

Message:

LNP STAT-KON KE002 is a compound based on Acetal resin containing 10% Carbon Fiber. Added feature of this material is: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound KC-1002

Product reorder name: KE002

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 10% filler by weight		
Features	Conductivity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.50 - 0.70	%	ASTM D955
Transverse flow: 24 hours	1.0 - 3.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8220	MPa	ISO 527-2/1
Tensile Strength			
Fracture ¹	106	MPa	ASTM D638
Fracture	104	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ²	2.4	%	ASTM D638
Fracture	2.0	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ³	7.00	MPa	ASTM D790
-- ⁴	7050	MPa	ISO 178
Flexural Stress	154	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	43	J/m	ASTM D256
23°C ⁵	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	370	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶ (1.8 MPa, Unannealed, 64.0 mm Span)	161	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+5	ohms	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. | Type 1, 5.0 mm/min |
| 2. | Type 1, 5.0 mm/min |
| 3. | 1.3 mm/min |
| 4. | 2.0 mm/min |
| 5. | 80*10*4 |
| 6. | 80*10*4 mm |

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