

LNP™ STAT-KON™ SE003 compound

Polyamide 12

SABIC Innovative Plastics

Message:

LNP STAT-KON SE003 is a compound based on Nylon 12 resin containing Carbon Fiber. Added features of this material include: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound SC1003

Product reorder name: SE003

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
RoHS Compliance	RoHS compliance		
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8600	MPa	ISO 527-2/1
Tensile Stress (Break)	121	MPa	ISO 527-2/5
Tensile Strain (Break)	2.8	%	ISO 527-2/5
Flexural Modulus ¹	7600	MPa	ISO 178
Flexural Stress	172	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (23°C)	15	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	50	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, unannealed, 64.0mm span	177	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	167	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	9.0E-6	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	1.6E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 - 1.0E+5	ohms	ASTM D257
NOTE			
1.	2.0 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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