

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 SC-1003
Product reorder name: SE003

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.07	g/cm ³	ASTM D792
--	1.08	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.10 - 0.30	%	ASTM D955
Transverse flow: 24 hours	0.60 - 0.80	%	ASTM D955
Vertical flow direction: 24 hours	0.50	%	ISO 294-4
Flow direction: 24 hours	0.30	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7580	MPa	ASTM D638
--	8700	MPa	ISO 527-2/1
Tensile Strength			
Yield	105	MPa	ASTM D638
Fracture	105	MPa	ASTM D638
Fracture	120	MPa	ISO 527-2
Tensile Elongation			
Yield	3.8	%	ASTM D638
Fracture	3.9	%	ASTM D638
Fracture	4.0	%	ISO 527-2
Flexural Modulus			
--	6210	MPa	ASTM D790
--	7000	MPa	ISO 178
Flexural Strength	117	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	85	J/m	ASTM D256

23°C ²	11	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	730	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Energy at Peak Load)	13.5	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	176	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	163	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ³	160	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	8.8E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	2.9E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.12 - 0.20	%	
Rear Temperature	216 - 227	°C	
Middle Temperature	221 - 232	°C	
Front Temperature	227 - 238	°C	
Processing (Melt) Temp	227 - 238	°C	
Mold Temperature	71.1 - 82.2	°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 mm		

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