

LNP™ STAT-KON™ RE003 compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP STAT-KON* RE003 is a compound based on Nylon 66 resin containing 15% Carbon Fiber. Added features of this material include: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound RC-1003
Product reorder name: RE003

General Information			
Filler / Reinforcement	Carbon Fiber,15% Filler by Weight		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183, ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.20 to 0.30	%	ASTM D955
Across Flow : 24 hr	0.70 to 0.80	%	ASTM D955
Across Flow : 24 hr	0.68 to 0.78	%	ISO 294-4
Flow : 24 hr	0.17 to 0.26	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.93	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11700	MPa	ASTM D638
--	11600	MPa	ISO 527-2/1
Tensile Strength			
Break	201	MPa	ASTM D638
Break	180	MPa	ISO 527-2
Tensile Elongation			
Break	2.6	%	ASTM D638
Break	2.5	%	ISO 527-2
Flexural Modulus			
--	11300	MPa	ASTM D790
--	10700	MPa	ISO 178
Flexural Strength			
--	302	MPa	ASTM D790
--	288	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	65	J/m	ASTM D256
23°C ²	5.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	430	J/m	ASTM D4812
23°C ³	43	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	8.54	J	ASTM D3763
--	2.60	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	260	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	250	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	250	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	261	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	2.4E-5	cm/cm/°C	
Transverse : -40 to 40°C	6.9E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 to 0.25	%	
Rear Temperature	266 to 277	°C	
Middle Temperature	282 to 293	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	282 to 304	°C	
Mold Temperature	93.3 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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