

LNP™ STAT-KON™ RE002 compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP STAT-KON RE002 is a compound based on Nylon 66 resin containing 10% Carbon Fiber. Added features of this material include: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound RC-1002
Product reorder name: RE002

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.60 to 0.80	%	ASTM D955
Across Flow : 24 hr	1.0 to 3.0	%	ASTM D955
Across Flow : 24 hr	1.3	%	ISO 294-4
Flow : 24 hr	0.74	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.80	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8270	MPa	ASTM D638
--	7800	MPa	ISO 527-2/1
Tensile Strength			
Yield	134	MPa	ASTM D638
Yield	131	MPa	ISO 527-2
Break	127	MPa	ASTM D638
Break	131	MPa	ISO 527-2
Tensile Elongation			
Yield	2.3	%	ASTM D638
Yield	2.1	%	ISO 527-2
Break	2.3	%	ASTM D638
Break	2.2	%	ISO 527-2
Flexural Modulus			
--	6890	MPa	ASTM D790
--	6000	MPa	ISO 178
Flexural Strength			
--	207	MPa	ASTM D790
--	191	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	27	J/m	ASTM D256
23°C ²	3.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	360	J/m	ASTM D4812
23°C ³	24	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	5.90	J	ASTM D3763
--	1.80	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	259	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	254	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	245	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	241	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	8.3E-5	cm/cm/°C	
Transverse : -40 to 40°C	2.9E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 1.0E+3	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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