

LNP™ STAT-KON™ RE002 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP STAT-KON RE002 is a compound based on Nylon 66 resin containing 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 reinforced material		
Features	Conductivity		
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 hours	0.60 - 0.80	%	ASTM D955
Transverse flow: 24 hours	1.0 - 3.0	%	ASTM D955
Vertical flow direction: 24 hours	1.3	%	ISO 294-4
Flow direction: 24 hours	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
Fracture	127	MPa	ASTM D638
Fracture	131	MPa	ISO 527-2
Tensile Elongation			
Yield	2.3	%	ASTM D638
Yield	2.1	%	ISO 527-2
Fracture	2.3	%	ASTM D638
Fracture	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, 3.20mm	259	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	254	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	245	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	241	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	8.3E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	2.9E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 - 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 - 0.25	%	
Rear Temperature	266 - 277	°C	
Middle Temperature	282 - 293	°C	
Front Temperature	293 - 304	°C	
Processing (Melt) Temp	282 - 304	°C	
Mold Temperature	93.3 - 110	°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		
4.	80*10*4 mm		
5.	80*10*4 mm		

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