

LNP™ STAT-KON™ RD000IXP compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP STAT-KON* RD000IXP is a compound based on Nylon 66 resin containing Carbon Powder. Added features of this material include: Electrically Conductive, High Impact.

Also known as: LNP* STAT-KON* Compound R-1 HI

Product reorder name: RD000IXP

General Information			
Filler / Reinforcement	Carbon Powder		
Features	Electrically Conductive		
	High Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.19	g/cm ³	ASTM D792
--	1.18	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	2.0 to 3.0	%	ASTM D955
Across Flow : 24 hr	2.0 to 3.0	%	ASTM D955
Across Flow : 24 hr	3.2	%	ISO 294-4
Flow : 24 hr	2.9	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.63	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.63	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2690	MPa	ASTM D638
--	2240	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	54.0	MPa	ASTM D638
Yield	51.0	MPa	ISO 527-2/5
Break ³	53.0	MPa	ASTM D638
Break	50.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	12	%	ASTM D638
Yield	14	%	ISO 527-2/5
Break ⁵	12	%	ASTM D638
Break	15	%	ISO 527-2/5

Flexural Modulus			
50.0 mm Span ⁶	2490	MPa	ASTM D790
-- ⁷	2590	MPa	ISO 178
Flexural Stress	83.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	74	J/m	ASTM D256
23°C ⁸	9.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1100	J/m	ASTM D4812
23°C ⁹	110	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	10.0	J	ASTM D3763
--	22.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	216	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	190	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	71.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	65.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	8.9E-5	cm/cm/°C	
Transverse : -30 to 30°C	8.7E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0 to 6.0	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.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		

6.	1.3 mm/min
7.	2.0 mm/min
8.	80*10*4
9.	80*10*4
10.	80*10*4 mm
11.	80*10*4 mm

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Recommended distributors for this material

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