

LNP™ STAT-KON™ RD000 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP STAT-KON* RD000 is a compound based on Nylon 66 resin containing Carbon Powder. Added feature of this material is: Electrically Conductive.

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

Product reorder name: RD000

General Information			
Filler / Reinforcement	Carbon Powder		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	2.7	%	
Across Flow : 24 hr	2.4	%	
Water Absorption			
24 hr, 50% RH	0.54	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.96	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3170	MPa	ASTM D638
--	3100	MPa	ISO 527-2/1
Tensile Strength			
Break	67.5	MPa	ASTM D638
Break	64.5	MPa	ISO 527-2
Tensile Elongation			
Break	4.5	%	ASTM D638
Break	7.6	%	ISO 527-2
Flexural Modulus			
--	2760	MPa	ASTM D790
--	3000	MPa	ISO 178
Flexural Strength			
--	95.7	MPa	ASTM D790
--	96.4	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	110	J/m	ASTM D256
23°C ²	7.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			

23°C	1100	J/m	ASTM D4812
23°C ³	90	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	9.80	J	ASTM D3763
--	3.80	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	218	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	94.4	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	77.0	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	7.9E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	8.0E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	8.1E-5	cm/cm/°C	ASTM E831, ISO 11359-2
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		

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