

LNP™ STAT-KON™ RD000I compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP STAT-KON RD000I 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-HI

Product reorder name: RD000I

General Information			
Filler / Reinforcement	Carbon Powder		
Features	Electrically Conductive		
	High Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	2.0 to 4.0	%	
Across Flow : 24 hr	2.0 to 4.0	%	
Water Absorption			
24 hr, 50% RH	0.49	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.73	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2120	MPa	ASTM D638
--	2190	MPa	ISO 527-2/1
Tensile Strength			
Break ²	41.0	MPa	ASTM D638
Break	41.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	18	%	ASTM D638
Break	18	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	1920	MPa	ASTM D790
-- ⁵	2030	MPa	ISO 178
Flexural Stress	62.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	140	J/m	ASTM D256
23°C ⁶	15	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	1800	J/m	ASTM D4812
23°C ⁷	160	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	16.2	J	ASTM D3763
--	20.9	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	206	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁸	191	°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 ⁹	68.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.1E-4	cm/cm/°C	
Transverse : -30 to 30°C	1.2E-4	cm/cm/°C	
Thermal Conductivity	2.8	W/m/K	ASTM E1530
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.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	80*10*4		
7.	80*10*4		
8.	80*10*4 mm		
9.	80*10*4 mm		

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