

LNP™ STAT-KON™ RFD03 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP STAT-KON RFD03 is a compound based on Nylon 66 containing 15% Glass Fiber. Added feature of this material is: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound RF-15

Product reorder name: RFD03

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.35	g/cm ³	
--	1.34	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.50 to 0.80	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.62	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.99	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8930	MPa	ASTM D638
--	8020	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	91.0	MPa	ASTM D638
Yield	92.0	MPa	ISO 527-2/5
Break ³	91.0	MPa	ASTM D638
Break	92.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	1.3	%	ASTM D638
Yield	1.2	%	ISO 527-2/5
Break ⁵	1.3	%	ASTM D638
Break	1.2	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	6340	MPa	ASTM D790
-- ⁷	6640	MPa	ISO 178
Flexural Stress			
--	134	MPa	ISO 178

Yield, 50.0 mm Span ⁸	177	MPa	ASTM D790
Break, 50.0 mm Span ⁹	179	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ¹⁰	4.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	290	J/m	ASTM D4812
23°C ¹¹	18	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	5.50	J	ASTM D3763
--	1.60	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	258	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	258	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	247	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	245	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	3.0E-6	cm/cm/°C	
Transverse : -30 to 30°C	8.0E-6	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0 to 3.0	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.	1.3 mm/min
9.	1.3 mm/min
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	80*10*4 mm

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

