

LNP™ STAT-KON™ REF42I compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP STAT-KON REF42I is a compound based on Nylon 6/6 containing Proprietary Fillers. Added feature of this grade is: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound PDX-R-86624

Product reorder name: REF42I

General Information			
Filler / Reinforcement	Proprietary		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.80 to 1.0	%	
Water Absorption			
24 hr, 50% RH	0.69	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.96	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	14700	MPa	ASTM D638
--	13900	MPa	ISO 527-2/1
Tensile Stress			
Yield	195	MPa	ISO 527-2/5
Break ²	197	MPa	ASTM D638
Break	176	MPa	ISO 527-2/5
Tensile Strain			
Yield	2.6	%	ISO 527-2/5
Break ³	2.6	%	ASTM D638
Break	2.7	%	ISO 527-2/5
Flexural Modulus ⁴ (50.0 mm Span)	11500	MPa	ASTM D790
Flexural Stress			
--	264	MPa	ISO 178
Yield, 50.0 mm Span ⁵	277	MPa	ASTM D790
Break, 50.0 mm Span ⁶	274	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	140	J/m	ASTM D256
23°C ⁷	13	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	1000	J/m	ASTM D4812
23°C ⁸	63	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	22.6	J	ASTM D3763
--	4.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	261	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	260	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	253	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	247	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0 to 4.0	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.	1.3 mm/min		
5.	1.3 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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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

