

LNP™ STAT-KON™ RE0069S compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP STAT-KON RE0069S is a compound based on Nylon 66 resin containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive, Flame Retardant, Heat Stabilized.

Also known as: LNP* STAT-KON* Compound RC-1006 FR HS

Product reorder name: RE0069S

General Information			
UL YellowCard	E121562-101282583		
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Electrically Conductive		
	Flame Retardant		
	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.50	g/cm ³	ASTM D792
--	1.49	g/cm ³	ISO 1183, ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.70 to 0.90	%	
Water Absorption			
24 hr, 50% RH	0.40	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.56	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	27000	MPa	ASTM D638
--	25000	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	199	MPa	ASTM D638
Yield	207	MPa	ISO 527-2/5
Break ³	199	MPa	ASTM D638
Break	207	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	1.7	%	ASTM D638
Yield	1.5	%	ISO 527-2/5
Break ⁵	1.7	%	ASTM D638

Break	1.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	18600	MPa	ASTM D790
-- ⁷	19600	MPa	ISO 178
Flexural Stress			
--	324	MPa	ISO 178
Yield, 50.0 mm Span ⁸	269	MPa	ASTM D790
Break, 50.0 mm Span ⁹	269	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	77	J/m	ASTM D256
23°C ¹⁰	8.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1000	J/m	ASTM D4812
23°C ¹¹	35	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	8.06	J	ASTM D3763
--	2.48	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	255	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	255	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	242	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	242	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	8.0E-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 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, 50 mm/min
3.	Type I, 50 mm/min
4.	Type I, 50 mm/min
5.	Type I, 50 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

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