

LNP™ STAT-KON™ REL33 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP STAT-KON* REL33 is a compound based on Nylon 66 resin containing 15% Carbon Fiber, 15% PTFE. Added features of this material include: Electrically Conductive, Wear Resistant.

Also known as: LNP* STAT-KON* Compound RCL-4033

Product reorder name: REL33

General Information			
Filler / Reinforcement	Carbon Fiber, 15% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Electrically Conductive		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.30	g/cm ³	ASTM D792
--	1.29	g/cm ³	ISO 1183, ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.60	%	
Across Flow : 24 hr	0.80 to 1.0	%	
Water Absorption			
24 hr, 50% RH	0.61	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.90	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	12500	MPa	ASTM D638
--	11700	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	169	MPa	ASTM D638
Yield	164	MPa	ISO 527-2/5
Break ³	169	MPa	ASTM D638
Break	164	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.7	%	ASTM D638
Yield	2.5	%	ISO 527-2/5
Break ⁵	2.8	%	ASTM D638
Break	2.4	%	ISO 527-2/5

Flexural Modulus			
50.0 mm Span ⁶	8740	MPa	ASTM D790
-- ⁷	8580	MPa	ISO 178
Flexural Stress			
--	231	MPa	ISO 178
Yield, 50.0 mm Span ⁸	237	MPa	ASTM D790
Break, 50.0 mm Span ⁹	237	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	58	J/m	ASTM D256
23°C ¹⁰	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	730	J/m	ASTM D4812
23°C ¹¹	44	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	7.40	J	ASTM D3763
--	2.20	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 ¹²	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 ¹³	244	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.0E-6	cm/cm/°C	
Transverse : -30 to 30°C	9.0E-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	277 to 288	°C	
Mold Temperature	82.2 to 93.3	°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

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