

LNP™ STAT-KON™ RX05489 compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP STAT-KON RX05489 is a compound based on Nylon 66 resin containing 10% Carbon Fiber, 20% Glass Fiber, 15% PTFE/Silicone. Added features of this material include: Electrically Conductive, Wear Resistant.

Also known as: LNP* STAT-KON* Compound RCFL-4536

Product reorder name: RX05489

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
	Glass Fiber,20% Filler by Weight		
Additive	PTFE + Silicone Lubricant (15%)		
Features	Electrically Conductive		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	5.0E-3 to 7.0E-3	%	
Across Flow : 24 hr	0.70 to 0.90	%	
Water Absorption			
24 hr, 50% RH	0.62	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.92	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	14900	MPa	ASTM D638
--	13600	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	175	MPa	ASTM D638
Yield	172	MPa	ISO 527-2/5
Break ³	175	MPa	ASTM D638
Break	172	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.5	%	ASTM D638
Yield	2.5	%	ISO 527-2/5
Break ⁵	2.5	%	ASTM D638
Break	2.5	%	ISO 527-2/5

Flexural Modulus			
50.0 mm Span ⁶	12100	MPa	ASTM D790
-- ⁷	12000	MPa	ISO 178
Flexural Stress			
--	258	MPa	ISO 178
Yield, 50.0 mm Span ⁸	256	MPa	ASTM D790
Break, 50.0 mm Span ⁹	257	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	85	J/m	ASTM D256
23°C ¹⁰	7.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	810	J/m	ASTM D4812
23°C ¹¹	48	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	8.20	J	ASTM D3763
--	2.60	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	255	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	246	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	238	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0 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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Recommended distributors for this material

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