

LNP* Stat-Kon* RX05489

Polyamide 66

SABIC Innovative Plastics



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Technical Data

Product Description

LNP* STAT-KON* RX05489 is a compound based on Nylon 66 resin containing PTFE, Carbon Fiber. Added features of this material include: Electrically Conductive, Internally Lubricated.

Also known as: LNP* Stat-Kon* Compound RCFL-4536

Product reorder name: RX05489

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
Search for UL Yellow Card	• SABIC Innovative Plastics • LNP* Stat-Kon*
Availability	• North America
Filler / Reinforcement	• Carbon Fiber Reinforcement
Additive	• PTFE Lubricant
Features	• Electrically Conductive • 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	0.0050 to 0.0070 %	
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		
-- ³	14900 MPa	ASTM D638
--	13600 MPa	ISO 527-2/1
Tensile Strength		
Yield ⁴	175 MPa	ASTM D638
Yield	172 MPa	ISO 527-2/5
Break ⁴	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 ⁴	2.5 %	ASTM D638
Break	2.5 %	ISO 527-2/5
Flexural Modulus		
50.0 mm Span ⁵	12100 MPa	ASTM D790
-- ⁶	12000 MPa	ISO 178
Flexural Strength		
--	258 MPa	ISO 178
Yield, 50.0 mm Span ⁵	256 MPa	ASTM D790
Break, 50.0 mm Span ⁵	257 MPa	ASTM D790

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Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C	85 J/m	ASTM D256
23°C ⁷	7.2 kJ/m ²	ISO 180/1A
Unnotched Izod Impact		
23°C	810 J/m	ASTM D4812
23°C ⁷	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 ⁸	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 ⁸	238 °C	ISO 75-2/Af
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	2.0 to 4.0 ohm	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	

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 50 mm/min

⁴ Type I, 5.0 mm/min

⁵ 1.3 mm/min

⁶ 2.0 mm/min

⁷ 80*10*4

⁸ 80*10*4 mm

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Where to Buy

Supplier

SABIC Innovative Plastics

Pittsfield, MA USA

Telephone: 800-845-0600

Web: <http://www.sabic-ip.com/>

Distributor

Nexeo Solutions

Telephone: 800-531-7106

Web: <http://www.nexeosolutions.com/>

Availability: North America



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– Birgit Elvardt Bader, Production Manager, Micotron

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– Kevin Chase, Owner & President, Chase Plastics



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