

LNP* Stat-Kon* RX08408_NA1D004

Polyamide 66

SABIC Innovative Plastics



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Technical Data

Product Description

LNP* Stat-Kon* RX08404_NA1D004 is a compound based on Nylon 66 containing Carbon Powder. Characteristics of this grade include: Electrically Conductive, High Impact.

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 Powder
Features	• Electrically Conductive • High Impact Resistance
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Molding Shrinkage		ASTM D955
Flow: 24 hr	3.0 to 5.0 %	
Across Flow: 24 hr	3.0 to 5.0 %	
Water Absorption		
24 hr, 50% RH	0.60 %	ASTM D570
Equilibrium, 23°C, 50% RH	0.87 %	ISO 62

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- ³	1960 MPa	ASTM D638
--	1940 MPa	ISO 527-2/1
Tensile Strength		
Break ⁴	46.0 MPa	ASTM D638
Break	47.0 MPa	ISO 527-2/5
Tensile Elongation		
Break ⁴	26 %	ASTM D638
Break	26 %	ISO 527-2/5
Flexural Modulus		
50.0 mm Span ⁵	1760 MPa	ASTM D790
-- ⁶	1850 MPa	ISO 178
Flexural Strength	61.0 MPa	ISO 178

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	1700 J/m	ASTM D4812
23°C ⁷	200 kJ/m ²	ISO 180/1U
Instrumented Dart Impact		
23°C, Total Energy	22.0 J	ASTM D3763
--	25.0 J	ISO 6603-2

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed, 3.20 mm	195 °C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁸	165 °C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	60.0 °C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁸	117 °C	ISO 75-2/Af

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Thermal	Nominal Value Unit	Test Method
CLTE		ASTM D696
Flow: -30 to 30°C	0.00011 cm/cm/°C	
Transverse: -30 to 30°C	0.00011 cm/cm/°C	
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+6 ohm	ASTM D257
Volume Resistivity	1.0E+3 to 1.0E+6 ohm·cm	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	

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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SABIC Innovative Plastics

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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– Kevin Chase, Owner & President, Chase Plastics



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