

LNP* Thermocomp* RX06324

Polyamide 66

SABIC Innovative Plastics Asia Pacific



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Technical Data

Product Description

This material is Mineral filled Nylon grade with high dielectric constant

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
UL Yellow Card ²	• E207780-101282825
Search for UL Yellow Card	• SABIC Innovative Plastics Asia Pacific • LNP* Thermocomp*
Availability	• Asia Pacific
Filler / Reinforcement	• Mineral Filler
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	2.19 g/cm ³	ASTM D792 ISO 1183
Melt Volume-Flow Rate (MVR) (270°C/1.2 kg)	17.0 cm ³ /10min	ISO 1133
Molding Shrinkage		ASTM D955
Flow: 24 hr	1.3 %	
Across Flow: 24 hr	1.1 %	
Water Absorption (24 hr, 50% RH)	2.0 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- ⁴	5120 MPa	ASTM D638
--	5230 MPa	ISO 527-2/1
Tensile Strength		
Break ⁵	72.0 MPa	ASTM D638
Break	74.0 MPa	ISO 527-2/5
Tensile Elongation		
Break ⁵	1.9 %	ASTM D638
Break	1.9 %	ISO 527-2/5
Flexural Modulus		
50.0 mm Span ⁶	4440 MPa	ASTM D790
-- ⁷	5020 MPa	ISO 178
Flexural Strength ⁶		ASTM D790
Yield, 50.0 mm Span	120 MPa	
Break, 50.0 mm Span	120 MPa	

Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C	37 J/m	ASTM D256
23°C ⁸	4.5 kJ/m ²	ISO 180/1A
Unnotched Izod Impact		
23°C	350 J/m	ASTM D4812
23°C ⁸	24 kJ/m ²	ISO 180/1U

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
1.8 MPa, Unannealed, 3.20 mm	95.9 °C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	94.9 °C	ISO 75-2/Af

Electrical	Nominal Value Unit	Test Method
Dielectric Constant ¹⁰ (0.900 GHz)	7.90	ASTM D2520

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Electrical	Nominal Value Unit	Test Method
Dissipation Factor (0.900 GHz)	0.011	ASTM D150

Injection	Nominal Value Unit
Drying Temperature	85.0 °C
Drying Time	8.0 to 10 hr
Rear Temperature	255 to 260 °C
Middle Temperature	265 to 270 °C
Front Temperature	265 to 270 °C
Nozzle Temperature	265 to 275 °C
Processing (Melt) Temp	260 to 270 °C
Mold Temperature	90.0 °C
Back Pressure	7.00 to 8.00 MPa
Screw Speed	110 to 130 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 A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 50 mm/min

⁵ Type I, 5.0 mm/min

⁶ 1.3 mm/min

⁷ 2.0 mm/min

⁸ 80*10*4

⁹ 80*10*4 mm

¹⁰ Method B

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SABIC Innovative Plastics Asia Pacific

Where to Buy

Supplier

SABIC Innovative Plastics Asia Pacific

Shanghai, China

Telephone: 86-21-3222-4500

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

Distributor

Please contact the supplier to find a distributor for LNP* Thermocomp* RX06324



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