

LNP* Thermocomp* RFZ349XC

Polyamide 66

SABIC Innovative Plastics



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Technical Data

Product Description

LNP THERMOCOMP* RFZ349XC is a compound based on Nylon 66 resin containing Glass Fiber, Milled Glass. Added features of this material include: Flame Retardant.

Also known as: LNP* Thermocomp* Compound RF-1007 FR MG LEX
Product reorder name: RFZ349XC

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
Search for UL Yellow Card	• SABIC Innovative Plastics • LNP* Thermocomp*
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement
Features	• Flame Retardant
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.66 g/cm ³	ISO 1183
Molding Shrinkage		
Flow: 24 hr	0.40 %	ASTM D955
Across Flow: 24 hr	1.2 %	ASTM D955 ISO 294-4
Flow: 24 hr	0.39 %	ISO 294-4
Water Absorption		
24 hr, 50% RH	0.20 %	ASTM D570
Equilibrium, 23°C, 50% RH	0.43 %	ISO 62

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- ³	11000 MPa	ASTM D638
--	11400 MPa	ISO 527-2/1
Tensile Strength		
Break	125 MPa	ASTM D638
Break	85.0 MPa	ISO 527-2
Tensile Elongation		
Break	2.3 %	ASTM D638
Break	3.2 %	ISO 527-2
Flexural Modulus		
--	7170 MPa	ASTM D790
--	9000 MPa	ISO 178
Flexural Strength		
--	179 MPa	ASTM D790
--	197 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C	64 J/m	ASTM D256
23°C ⁴	7.7 kJ/m ²	ISO 180/1A
Unnotched Izod Impact		
23°C	590 J/m	ASTM D4812
23°C ⁴	39 kJ/m ²	ISO 180/1U

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Impact	Nominal Value Unit	Test Method
Instrumented Dart Impact		
23°C, Energy at Peak Load	7.00 J	ASTM D3763
--	2.30 J	ISO 6603-2
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
1.8 MPa, Unannealed, 3.20 mm	237 °C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	235 °C	ISO 75-2/Af
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 80*10*4

⁵ 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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– Kevin Chase, Owner & President, Chase Plastics



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