

LNP* Thermocomp* RF00AS

Polyamide 66

SABIC Innovative Plastics



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Technical Data

Product Description

LNP THERMOCOMP* RF00AS is a compound based on Nylon 66 resin containing Glass Fiber. Added features of this material include: Heat Stabilized.

Also known as: LNP* Thermocomp* Compound RF-100-10 HS

Product reorder name: RF00AS

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
Additive	• Heat Stabilizer
Features	• Heat Stabilized
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.57 g/cm ³	ASTM D792 ISO 1183
Molding Shrinkage		
Flow: 24 hr	0.30 %	ASTM D955
Across Flow: 24 hr	1.2 %	ASTM D955 ISO 294-4
Flow: 24 hr	0.34 %	ISO 294-4
Water Absorption		
24 hr, 50% RH	0.40 %	ASTM D570
Equilibrium, 23°C, 50% RH	0.74 %	ISO 62

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- ³	17700 MPa	ASTM D638
--	14000 MPa	ISO 527-2/1
Tensile Strength		
Break	198 MPa	ASTM D638
Break	194 MPa	ISO 527-2
Tensile Elongation (Break)	2.4 %	ASTM D638 ISO 527-2
Flexural Modulus		
--	12500 MPa	ASTM D790
--	14500 MPa	ISO 178
Flexural Strength		
--	312 MPa	ASTM D790
--	300 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C	150 J/m	ASTM D256
23°C ⁴	14 kJ/m ²	ISO 180/1A
Unnotched Izod Impact		
23°C	1600 J/m	ASTM D4812
23°C ⁴	66 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	12.2 J	ASTM D3763
--	3.90 J	ISO 6603-2
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
1.8 MPa, Unannealed, 3.20 mm	253 °C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	> 240 °C	ISO 75-2/Af
CLTE		
Flow: -40 to 40°C	0.000027 cm/cm/°C	ASTM E831
Flow: -40 to 40°C	0.000028 cm/cm/°C	ISO 11359-2
Transverse: -40 to 40°C	0.000043 cm/cm/°C	ASTM E831
Transverse: -40 to 40°C	0.000044 cm/cm/°C	ISO 11359-2
Flammability	Nominal Value Unit	Test Method
Flame Rating (1.50 mm, Testing by SABIC)	HB	UL 94
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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