

LNP* Thermocomp* RFB71S

Polyamide 66

SABIC Innovative Plastics Europe



IDES | Prospector

ides.com/prospector

Technical Data

Product Description

LNP* Thermocomp* RFB71S is a compound based on Nylon 66 resin containing Glass Fiber, Glass Bead. Added features of this material include: Heat Stabilized.

Also known as: LNP* Thermocomp* Compound RF-1008 HS MG
Product reorder name: RFB71S

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
UL Yellow Card ²	• E45329-101282594
Search for UL Yellow Card	• SABIC Innovative Plastics Europe • LNP* Thermocomp*
Availability	• Europe
Filler / Reinforcement	• Glass Bead\Glass Fiber
Additive	• Heat Stabilizer
Features	• Heat Stabilized
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.45 g/cm ³	ISO 1183
Molding Shrinkage - Flow ⁴	0.70 to 0.90 %	Internal Method

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	5800 MPa	ISO 527-2/1
Tensile Stress (Break)	99.0 MPa	ISO 527-2/5
Tensile Strain (Break)	3.3 %	ISO 527-2/5
Flexural Modulus ⁵	5000 MPa	ISO 178
Flexural Strength ⁵		ISO 178
-- ⁶	155 MPa	
-- ⁷	90.0 MPa	

Impact	Nominal Value Unit	Test Method
Notched Izod Impact Strength ⁸ (23°C)	4.0 kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁸ (23°C)	25 kJ/m ²	ISO 180/1U

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature ⁹		
0.45 MPa, Unannealed, 64.0 mm Span	243 °C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	137 °C	ISO 75-2/Af
CLTE		ISO 11359-2
Flow: 23 to 60°C	0.000052 cm/cm/°C	
Transverse: 23 to 60°C	0.000073 cm/cm/°C	

Flammability	Nominal Value Unit	Test Method
Flame Rating (1.50 mm)	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

LNP* Thermocomp* RFB71S

Polyamide 66

SABIC Innovative Plastics Europe



ides.com/prospector

Injection	Nominal Value Unit
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 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 Tensile Bar

⁵ 2.0 mm/min

⁶ Yield

⁷ Break

⁸ 80*10*4

⁹ 80*10*4 mm

LNP* Thermocomp* RFB71S

Polyamide 66

SABIC Innovative Plastics Europe



ides.com/prospector

Where to Buy

Supplier

SABIC Innovative Plastics Europe

, Netherlands

Telephone: +36-1-238-5060

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

Distributor

Polymix

Telephone: +33-3-8920-1380

Web: <http://www.polymix.eu/>

Availability: France

RESINEX Group

RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.

Telephone: +32-14-672511

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

Availability: Europe

Ultrapolymers

Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.

Telephone: +32-11-57-95-57

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

Availability: Europe



Founded in 1986 and based in Laramie, Wyoming, IDES is now part of the UL family of companies. UL is a premier global independent safety science company with more than a century of proven history. Employing nearly 10,000 professionals in over 100 countries, UL has five distinct business units -- Product Safety, Environment, Life & Health, Knowledge Services and Verification Services -- to meet the expanding needs of our customers and to deliver on our public safety mission.



Prospector Plastics Database - www.ides.com/prospector

Prospector is a searchable online database that includes 85,000 data sheets from 875 manufacturers and 44,000 UL yellow cards. Each data sheet includes property, processing and supplier contact information. Prospector is relied on by nearly 400,000 design engineers and plastics processors. Using Prospector, they save time with plastic material selection by quickly and easily referencing technical information critical to the success of their products.

"Prospector is absolutely the best and most well-known search engine for plastic raw materials in the world. We use Prospector every day – it's a real time saver!"

– Birgit Elvardt Bader, Production Manager, Micotron

Power Searches

Property Search – select plastics by 500 key properties and design parameters.

Alternative Resins Search – find replacement plastics within minutes.

Automotive Plastics Search – easily locate automotive approved plastics.

Curve Data – view, overlay and export curve data.



Material Data Management – www.ides.com/datasheets

With our data management services, plastic suppliers and distributors can have custom search interfaces available on their website for their customers, website visitors, sales and customer service teams. These provide intuitive ways to find and view technical data sheets for their products.

"With UL IDES data services, our website now displays the most current information on the products we distribute and links to our backend RFQ and sales order system, adding both value and service for our customers."

– Kevin Chase, Owner & President, Chase Plastics



Advertising – www.ides.com/advertise

Reach 365,000 pre-qualified plastics professionals and generate leads with proven techniques. Electronic newsletter insertions, sponsored webinars and powerful online ads are available to make the most of your lead-generation program.

For more information, call: 800.788.4668 or 307.742.9227 ext. 220