

LNP* Thermocomp* RFB53U

Polyamide 66

SABIC Innovative Plastics Europe



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Technical Data

Product Description

LNP*THERMOCOMP*RFB53U is a compound based on PA 66 resin containing Glass Bead, Glass Fiber. Added features include: UV-Stabilized.

Also known as: LNP* Thermocomp* Compound 66 1525 VK Z4

Product Reorder name: RFB53U

General

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

Physical	Nominal Value Unit	Test Method
Density	1.47 g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.70 %	Internal Method
Water Absorption (23°C, 24 hr)	1.1 %	ISO 62

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	7200 MPa	ISO 527-2/1
Tensile Stress (Yield)	131 MPa	ISO 527-2/5
Tensile Strain (Break)	2.6 %	ISO 527-2/5
Flexural Modulus ³	7500 MPa	ISO 178
Flexural Strength ^{3, 4}	201 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Notched Izod Impact Strength ⁵ (23°C)	6.0 kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁵ (23°C)	30 kJ/m ²	ISO 180/1U

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature ⁶		
0.45 MPa, Unannealed, 64.0 mm Span	253 °C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	229 °C	ISO 75-2/Af
CLTE		ISO 11359-2
Flow: 23 to 60°C	0.000042 cm/cm/°C	
Transverse: 23 to 60°C	0.000086 cm/cm/°C	

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

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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 2.0 mm/min
- ⁴ Yield
- ⁵ 80*10*4
- ⁶ 80*10*4 mm

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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



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– Birgit Elvardt Bader, Production Manager, Micotron

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– Kevin Chase, Owner & President, Chase Plastics



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