

# LNP\* Thermocomp\* RB004

Polyamide 66

SABIC Innovative Plastics Europe



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## Technical Data

### Product Description

LNP\* THERMOCOMP\* RB004 is a compound based on PA 66 resin containing Glass Beads.

### General

|                           |                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------|
| Material Status           | • Commercial: Active                                                                     |
| Literature <sup>1</sup>   | • <a href="#">Technical Datasheet</a>                                                    |
| Search for UL Yellow Card | • <a href="#">SABIC Innovative Plastics Europe</a><br>• <a href="#">LNP* Thermocomp*</a> |
| Availability              | • Europe                                                                                 |
| Filler / Reinforcement    | • Glass Bead                                                                             |
| RoHS Compliance           | • RoHS Compliant                                                                         |
| Processing Method         | • Injection Molding                                                                      |

| Physical                 | Nominal Value Unit     | Test Method     |
|--------------------------|------------------------|-----------------|
| Density                  | 1.29 g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage - Flow | 1.1 to 1.3 %           | Internal Method |

| Mechanical                       | Nominal Value Unit | Test Method |
|----------------------------------|--------------------|-------------|
| Tensile Modulus                  | 4300 MPa           | ISO 527-2/1 |
| Tensile Stress (Break)           | 65.0 MPa           | ISO 527-2/5 |
| Tensile Strain (Break)           | 5.0 %              | ISO 527-2/5 |
| Flexural Modulus <sup>3</sup>    | 3300 MPa           | ISO 178     |
| Flexural Strength <sup>3,4</sup> | 100 MPa            | ISO 178     |

| Impact                                             | Nominal Value Unit    | Test Method |
|----------------------------------------------------|-----------------------|-------------|
| Notched Izod Impact Strength <sup>5</sup> (23°C)   | 5.0 kJ/m <sup>2</sup> | ISO 180/1A  |
| Unnotched Izod Impact Strength <sup>5</sup> (23°C) | 25 kJ/m <sup>2</sup>  | ISO 180/1U  |

| Thermal                                                                       | Nominal Value Unit | Test Method |
|-------------------------------------------------------------------------------|--------------------|-------------|
| Heat Deflection Temperature <sup>6</sup><br>1.8 MPa, Unannealed, 64.0 mm Span | 70.0 °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

<sup>1</sup> 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.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> 2.0 mm/min

<sup>4</sup> Yield

<sup>5</sup> 80\*10\*4

<sup>6</sup> 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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