

# LNP\* Verton\* RV007SX9

Polyamide 66

SABIC Innovative Plastics Europe



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## Technical Data

### Product Description

LNP\* VERTON\* RV007SX9 is a compound based on PA 66 resin containing Long Glass Fiber.

Also known as: LNP\* Verton\* Compound RF-7007

Product reorder name: RV007SX9

### General

|                             |                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------|
| Material Status             | • Commercial: Active                                                                 |
| Literature <sup>1</sup>     | • <a href="#">Technical Datasheet</a>                                                |
| UL Yellow Card <sup>2</sup> | • <a href="#">E45329-101282652</a>                                                   |
| Search for UL Yellow Card   | • <a href="#">SABIC Innovative Plastics Europe</a><br>• <a href="#">LNP* Verton*</a> |
| Availability                | • Europe                                                                             |
| Filler / Reinforcement      | • Long Glass Fiber                                                                   |
| RoHS Compliance             | • RoHS Compliant                                                                     |
| Processing Method           | • Injection Molding                                                                  |

| Physical                       | Nominal Value Unit     | Test Method |
|--------------------------------|------------------------|-------------|
| Density                        | 1.41 g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage              |                        | ISO 294-4   |
| Across Flow: 24 hr             | 1.2 %                  |             |
| Flow: 24 hr                    | 0.43 %                 |             |
| Water Absorption (23°C, 24 hr) | 1.3 %                  | ISO 62      |

| Mechanical                        | Nominal Value Unit | Test Method |
|-----------------------------------|--------------------|-------------|
| Tensile Modulus                   | 11900 MPa          | ISO 527-2/1 |
| Tensile Stress (Break)            | 195 MPa            | ISO 527-2/5 |
| Tensile Strain (Break)            | 1.9 %              | ISO 527-2/5 |
| Flexural Modulus <sup>4</sup>     | 10200 MPa          | ISO 178     |
| Flexural Strength <sup>4, 5</sup> | 283 MPa            | ISO 178     |

| Impact                                             | Nominal Value Unit   | Test Method |
|----------------------------------------------------|----------------------|-------------|
| Notched Izod Impact Strength <sup>6</sup> (23°C)   | 24 kJ/m <sup>2</sup> | ISO 180/1A  |
| Unnotched Izod Impact Strength <sup>6</sup> (23°C) | 52 kJ/m <sup>2</sup> | ISO 180/1U  |

| Thermal                                  | Nominal Value Unit | Test Method |
|------------------------------------------|--------------------|-------------|
| Heat Deflection Temperature <sup>7</sup> |                    |             |
| 0.45 MPa, Unannealed, 64.0 mm Span       | 263 °C             | ISO 75-2/Bf |
| 1.8 MPa, Unannealed, 64.0 mm Span        | 259 °C             | ISO 75-2/Af |

| Electrical                  | Nominal Value Unit | Test Method |
|-----------------------------|--------------------|-------------|
| High Amp Arc Ignition (HAI) | PLC 0              | UL 746      |
| Hot-wire Ignition (HWI)     | PLC 0              | UL 746      |

| Flammability            | Nominal Value Unit | Test Method |
|-------------------------|--------------------|-------------|
| Flame Rating (0.750 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       | 282 to 293 °C      |
| Middle Temperature     | 288 to 299 °C      |
| Front Temperature      | 288 to 299 °C      |
| Processing (Melt) Temp | 288 to 304 °C      |
| Mold Temperature       | 93.3 to 110 °C     |

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| Injection     | Nominal Value Unit |
|---------------|--------------------|
| 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> 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.

<sup>3</sup> Typical properties: these are not to be construed as specifications.

<sup>4</sup> 2.0 mm/min

<sup>5</sup> Break

<sup>6</sup> 80\*10\*4

<sup>7</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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