

# LNP\* Verton\* RV00CES

Polyamide 66

SABIC Innovative Plastics



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## Technical Data

### Product Description

LNP VERTON\* RV00CES is a compound based on Nylon 66 resin containing Long Glass. Added features of this material include: Easy Molding.

Also known as: LNP\* Verton\* Compound RF-700-12 EM HS

Product reorder name: RV00CES

### General

|                           |                                                                               |
|---------------------------|-------------------------------------------------------------------------------|
| Material Status           | • Commercial: Active                                                          |
| Literature <sup>1</sup>   | • <a href="#">Technical Datasheet</a>                                         |
| Search for UL Yellow Card | • <a href="#">SABIC Innovative Plastics</a><br>• <a href="#">LNP* Verton*</a> |
| Availability              | • North America                                                               |
| Filler / Reinforcement    | • Long Glass Fiber                                                            |
| Features                  | • Good Moldability                                                            |
| Processing Method         | • Injection Molding                                                           |

| Physical                         | Nominal Value Unit     | Test Method            |
|----------------------------------|------------------------|------------------------|
| Specific Gravity                 | 1.71 g/cm <sup>3</sup> | ASTM D792<br>ISO 1183  |
| Molding Shrinkage                |                        |                        |
| Flow: 24 hr                      | 0.20 %                 | ASTM D955<br>ISO 294-4 |
| Across Flow: 24 hr               | 0.40 %                 | ASTM D955              |
| Across Flow: 24 hr               | 0.41 %                 | ISO 294-4              |
| Water Absorption (24 hr, 50% RH) | 0.44 %                 | ASTM D570              |

| Mechanical                 | Nominal Value Unit | Test Method            |
|----------------------------|--------------------|------------------------|
| Tensile Modulus            |                    |                        |
| -- <sup>3</sup>            | 19700 MPa          | ASTM D638              |
| --                         | 23300 MPa          | ISO 527-2/1            |
| Tensile Strength           |                    |                        |
| Break                      | 270 MPa            | ASTM D638              |
| Break                      | 261 MPa            | ISO 527-2              |
| Tensile Elongation (Break) | 1.6 %              | ASTM D638<br>ISO 527-2 |
| Flexural Modulus           |                    |                        |
| --                         | 18000 MPa          | ASTM D790              |
| --                         | 18900 MPa          | ISO 178                |
| Flexural Strength          |                    |                        |
| --                         | 430 MPa            | ASTM D790              |
| --                         | 433 MPa            | ISO 178                |

| Impact                                             | Nominal Value Unit    | Test Method |
|----------------------------------------------------|-----------------------|-------------|
| Notched Izod Impact                                |                       |             |
| 23°C                                               | 410 J/m               | ASTM D256   |
| -40°C <sup>4</sup>                                 | 43 kJ/m <sup>2</sup>  | ISO 180/1A  |
| 23°C <sup>4</sup>                                  | 54 kJ/m <sup>2</sup>  | ISO 180/1A  |
| Unnotched Izod Impact Strength <sup>4</sup> (23°C) | 100 kJ/m <sup>2</sup> | ISO 180/1U  |
| Instrumented Dart Impact                           |                       |             |
| 23°C, Energy at Peak Load                          | 18.0 J                | ASTM D3763  |
| --                                                 | 18.0 J                | ISO 6603-2  |

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| Thermal                                         | Nominal Value Unit | Test Method |
|-------------------------------------------------|--------------------|-------------|
| Heat Deflection Temperature                     |                    |             |
| 0.45 MPa, Unannealed, 64.0 mm Span <sup>5</sup> | 252 °C             | ISO 75-2/Bf |
| 1.8 MPa, Unannealed, 3.20 mm                    | 247 °C             | ASTM D648   |
| 1.8 MPa, Unannealed, 64.0 mm Span <sup>5</sup>  | 252 °C             | ISO 75-2/Af |
| CLTE                                            |                    |             |
| Flow: -40 to 40°C                               | 0.000018 cm/cm/°C  | ASTM E831   |
| Flow: -40 to 40°C                               | 0.000017 cm/cm/°C  | ISO 11359-2 |
| Transverse: -40 to 40°C                         | 0.000054 cm/cm/°C  | ASTM E831   |
| Transverse: -40 to 40°C                         | 0.000053 cm/cm/°C  | ISO 11359-2 |
| 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     |             |
| 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> 50 mm/min

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

<sup>5</sup> 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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