

# LNP™ VERTON™ RV007ESS compound

Polyamide 66

SABIC Innovative Plastics Europe

## Message:

LNP VERTON® RF-7007 EM HS is a compound based on Nylon 66 resin containing Long Glass. Added features of this material include: Easy Molding.

| General Information                            |                   |                   |                     |
|------------------------------------------------|-------------------|-------------------|---------------------|
| UL YellowCard                                  | E45329-101282651  | E45329-101344688  |                     |
| Filler / Reinforcement                         | Long Glass Fiber  |                   |                     |
| Features                                       | Good Moldability  |                   |                     |
| RoHS Compliance                                | RoHS Compliant    |                   |                     |
| Processing Method                              | Injection Molding |                   |                     |
| Physical                                       | Nominal Value     | Unit              | Test Method         |
| Specific Gravity                               | 1.42              | g/cm <sup>3</sup> | ASTM D792, ISO 1183 |
| Water Absorption (24 hr, 50% RH)               | 0.97              | %                 | ASTM D570           |
| Mechanical                                     | Nominal Value     | Unit              | Test Method         |
| Tensile Modulus                                | 12000             | MPa               | ISO 527-2/1         |
| Tensile Strength                               |                   |                   |                     |
| Break                                          | 205               | MPa               | ASTM D638           |
| Break                                          | 214               | MPa               | ISO 527-2           |
| Tensile Strain (Break)                         | 2.1               | %                 | ISO 527-2           |
| Flexural Modulus                               |                   |                   |                     |
| --                                             | 9880              | MPa               | ASTM D790           |
| --                                             | 10200             | MPa               | ISO 178             |
| Flexural Stress                                | 309               | MPa               | ISO 178             |
| Impact                                         | Nominal Value     | Unit              | Test Method         |
| Notched Izod Impact                            |                   |                   |                     |
| 23°C                                           | 280               | J/m               | ASTM D256           |
| -40°C <sup>1</sup>                             | 25                | kJ/m <sup>2</sup> | ISO 180/1A          |
| 23°C <sup>2</sup>                              | 29                | kJ/m <sup>2</sup> | ISO 180/1A          |
| Thermal                                        | Nominal Value     | Unit              | Test Method         |
| Deflection Temperature Under Load              |                   |                   |                     |
| 1.8 MPa, Unannealed, 3.20 mm                   | 245               | °C                | ASTM D648           |
| 1.8 MPa, Unannealed, 64.0 mm Span <sup>3</sup> | 252               | °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                               | 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 |

#### NOTE

1. 80\*10\*4
2. 80\*10\*4
3. 80\*10\*4 mm

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

