

# LNP™ VERTON™ NV008E compound

Polycarbonate + ABS

SABIC Innovative Plastics

## Message:

LNP VERTON NV008E is a compound based on PC/ABS resin containing Long Glass Fiber. Added features of this material include: Easy Molding.

Also known as: LNP\* VERTON\* Compound PCA-F-7008 EM

Product reorder name: NV008E

| General Information               |                  |                   |             |
|-----------------------------------|------------------|-------------------|-------------|
| Filler / Reinforcement            | Long glass fiber |                   |             |
| Features                          | Good formability |                   |             |
| Physical                          | Nominal Value    | Unit              | Test Method |
| Specific Gravity                  |                  |                   |             |
| --                                | 1.49             | g/cm <sup>3</sup> | ASTM D792   |
| --                                | 1.50             | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                 |                  |                   |             |
| Transverse flow: 24 hours         | 0.30             | %                 | ASTM D955   |
| Vertical flow direction: 24 hours | 0.27             | %                 | ISO 294-4   |
| Flow direction: 24 hours          | 0.050            | %                 | ISO 294-4   |
| Mechanical                        | Nominal Value    | Unit              | Test Method |
| Tensile Modulus                   |                  |                   |             |
| -- <sup>1</sup>                   | 20300            | MPa               | ASTM D638   |
| --                                | 12400            | MPa               | ISO 527-2/1 |
| Tensile Strength                  |                  |                   |             |
| Yield                             | 147              | MPa               | ASTM D638   |
| Yield                             | 156              | MPa               | ISO 527-2   |
| Fracture                          | 147              | MPa               | ASTM D638   |
| Fracture                          | 156              | MPa               | ISO 527-2   |
| Tensile Elongation                |                  |                   |             |
| Yield                             | 1.4              | %                 | ASTM D638   |
| Yield                             | 1.3              | %                 | ISO 527-2   |
| Fracture                          | 1.4              | %                 | ASTM D638   |
| Fracture                          | 1.3              | %                 | ISO 527-2   |
| Flexural Modulus                  |                  |                   |             |
| --                                | 11000            | MPa               | ASTM D790   |
| --                                | 11700            | MPa               | ISO 178     |
| Flexural Strength                 |                  |                   |             |
| --                                | 214              | MPa               | ASTM D790   |
| --                                | 224              | MPa               | ISO 178     |
| Impact                            | Nominal Value    | Unit              | Test Method |
| Notched Izod Impact               |                  |                   |             |

| -40°C                                                | 320           | J/m               | ASTM D256   |
|------------------------------------------------------|---------------|-------------------|-------------|
| 23°C                                                 | 300           | J/m               | ASTM D256   |
| -40°C <sup>2</sup>                                   | 34            | kJ/m <sup>2</sup> | ISO 180/1A  |
| 23°C <sup>3</sup>                                    | 28            | kJ/m <sup>2</sup> | ISO 180/1A  |
| Unnotched Izod Impact                                |               |                   |             |
| 23°C                                                 | 740           | J/m               | ASTM D4812  |
| 23°C <sup>4</sup>                                    | 50            | kJ/m <sup>2</sup> | ISO 180/1U  |
| Instrumented Dart Impact (23°C, Energy at Peak Load) | 14.1          | J                 | ASTM D3763  |
| Thermal                                              | Nominal Value | Unit              | Test Method |
| Deflection Temperature Under Load                    |               |                   |             |
| 1.8 MPa, unannealed, 3.20mm                          | 53.9          | °C                | ASTM D648   |
| 1.8 MPa, unannealed, 64.0mm span <sup>5</sup>        | 131           | °C                | ISO 75-2/Af |
| Linear thermal expansion coefficient                 |               |                   |             |
| Flow: -40 to 40°C                                    | 2.0E-5        | cm/cm/°C          | ASTM E831   |
| Flow: -40 to 40°C                                    | 2.1E-5        | cm/cm/°C          | ISO 11359-2 |
| Lateral: -40 to 40°C                                 | 4.3E-5        | cm/cm/°C          | ASTM E831   |
| Lateral: -40 to 40°C                                 | 4.5E-5        | cm/cm/°C          | ISO 11359-2 |
| NOTE                                                 |               |                   |             |
| 1.                                                   | 50 mm/min     |                   |             |
| 2.                                                   | 80*10*4       |                   |             |
| 3.                                                   | 80*10*4       |                   |             |
| 4.                                                   | 80*10*4       |                   |             |
| 5.                                                   | 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



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