



## LNP™ VERTON™ Compound MV006S

### Americas: COMMERCIAL

Also known as: LNP™ VERTON™ Compound MFX-7006 HS

Product reorder name: MV006S

LNP VERTON MV006S is a compound based on Polypropylene resin containing 30% Long Glass Fiber. Added features of this material include: Chemically Coupled, Structural.

| TYPICAL PROPERTIES <sup>1</sup>         | TYPICAL VALUE | Unit                | Standard    |
|-----------------------------------------|---------------|---------------------|-------------|
| <b>MECHANICAL</b>                       |               |                     |             |
| Tensile Stress, break                   | 1050          | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Strain, break                   | 2.6           | %                   | ASTM D 638  |
| Flexural Stress                         | 1530          | kgf/cm <sup>2</sup> | ASTM D 790  |
| Flexural Modulus                        | 61500         | kgf/cm <sup>2</sup> | ASTM D 790  |
| Tensile Stress, break                   | 105           | MPa                 | ISO 527     |
| Tensile Strain, break                   | 2.6           | %                   | ISO 527     |
| Tensile Modulus, 1 mm/min               | 7810          | MPa                 | ISO 527     |
| Flexural Stress                         | 153           | MPa                 | ISO 178     |
| Flexural Modulus                        | 6450          | MPa                 | ISO 178     |
| <b>IMPACT</b>                           |               |                     |             |
| Izod Impact, unnotched, 23°C            | 78            | cm-kgf/cm           | ASTM D 4812 |
| Izod Impact, notched, 23°C              | 16            | cm-kgf/cm           | ASTM D 256  |
| Instrumented Impact Energy @ peak, 23°C | 101           | cm-kgf              | ASTM D 3763 |
| Multiaxial Impact                       | 101           | cm-kgf              | ISO 6603    |
| Izod Impact, unnotched 80*10*4 +23°C    | 49            | kJ/m <sup>2</sup>   | ISO 180/1U  |
| Izod Impact, notched 80*10*4 +23°C      | 18            | kJ/m <sup>2</sup>   | ISO 180/1A  |
| <b>THERMAL</b>                          |               |                     |             |
| CTE, -40°C to 40°C, flow                | 1.8E-05       | 1/°C                | ASTM E 831  |
| CTE, -40°C to 40°C, xflow               | 4.5E-05       | 1/°C                | ASTM E 831  |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm   | 158           | °C                  | ISO 75/Af   |
| <b>PHYSICAL</b>                         |               |                     |             |
| Density                                 | 1.13          | g/cm <sup>3</sup>   | ASTM D 792  |
| Mold Shrinkage, flow, 24 hrs (5)        | 0.3           | %                   | ASTM D 955  |
| Mold Shrinkage, xflow, 24 hrs (5)       | 0.6           | %                   | ASTM D 955  |





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|-----------------------------------|---------------|-------------------------------------------------|----------------------|
| PHYSICAL                          |               |                                                 |                      |
| Mold Shrinkage, flow, 24 hrs (5)  | 0.26          | %                                               | ISO 294              |
| Mold Shrinkage, xflow, 24 hrs (5) | 0.59          | %                                               | ISO 294              |
| Wear Factor Washer                | 44            | 10 <sup>-10</sup> in <sup>5</sup> -min/ft-lb-hr | ASTM D 3702 Modified |
| Dynamic COF                       | 0.36          | -                                               | ASTM D 3702 Modified |
| Static COF                        | 0.39          | -                                               | ASTM D 3702 Modified |
| Density                           | 1.12          | g/cm <sup>3</sup>                               | ISO 1183             |





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| PROCESSING PARAMETERS       | TYPICAL VALUE | Unit |
|-----------------------------|---------------|------|
| <b>Injection Molding</b>    |               |      |
| Drying Temperature          | 80            | °C   |
| Drying Time                 | 4             | hrs  |
| Melt Temperature            | 220 - 250     | °C   |
| Front - Zone 3 Temperature  | 250 - 260     | °C   |
| Middle - Zone 2 Temperature | 245 - 255     | °C   |
| Rear - Zone 1 Temperature   | 230 - 245     | °C   |
| Mold Temperature            | 40 - 65       | °C   |
| Back Pressure               | 0.2 - 0.3     | MPa  |
| Screw Speed                 | 30 - 60       | rpm  |

