



## LNP™ VERTON™ Compound PX00700

### Americas: COMMERCIAL

Also known as: LNP™ VERTON™ Compound PDX-P-00700

Product reorder name: PX00700

LNP VERTON™ PX00700 is a compound based on Nylon 6 resin containing proprietary fillers. Added feature of this grade is: Structural.

| TYPICAL PROPERTIES <sup>1</sup>        | TYPICAL VALUE | Unit              | Standard   |
|----------------------------------------|---------------|-------------------|------------|
| <b>MECHANICAL</b>                      |               |                   |            |
| Tensile Stress, break                  | 188           | MPa               | ISO 527    |
| Tensile Strain, break                  | 2.7           | %                 | ISO 527    |
| Tensile Modulus, 1 mm/min              | 9510          | MPa               | ISO 527    |
| Flexural Stress                        | 249           | MPa               | ISO 178    |
| Flexural Modulus                       | 8210          | MPa               | ISO 178    |
| <b>IMPACT</b>                          |               |                   |            |
| Izod Impact, unnotched 80*10*4 +23°C   | 73            | kJ/m <sup>2</sup> | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C     | 31            | kJ/m <sup>2</sup> | ISO 180/1A |
| <b>THERMAL</b>                         |               |                   |            |
| HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm | 214           | °C                | ISO 75/Bf  |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm  | 210           | °C                | ISO 75/Af  |
| <b>PHYSICAL</b>                        |               |                   |            |
| Density                                | 1.38          | 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  |
| Maximum Moisture Content    | 0.15 - 0.25   | %    |
| Melt Temperature            | 265 - 275     | °C   |
| Front - Zone 3 Temperature  | 275 - 290     | °C   |
| Middle - Zone 2 Temperature | 265 - 275     | °C   |
| Rear - Zone 1 Temperature   | 250 - 260     | °C   |
| Mold Temperature            | 80 - 95       | °C   |
| Back Pressure               | 0.3 - 0.7     | MPa  |
| Screw Speed                 | 30 - 60       | rpm  |