

# LNPT<sup>™</sup> VERTON<sup>™</sup> COMPOUND PX91200

PDX-P-91200

## DESCRIPTION

LNP VERTON PX91200 is a compound based on Polyamide 6 (Nylon 6) resin containing 35% long glass fiber and proprietary lubricants. Added features include High Impact, Structural and Wear resistant.

| GENERAL INFORMATION   |   |
|-----------------------|---|
| Features              | Wear resistant, High stiffness/Strength |
| Fillers               | Glass Fiber, Proprietary Filler         |
| Polymer Types         | Polyamide 6 (Nylon 6)                   |
| Processing Techniques | Injection Molding                       |

  

| INDUSTRY                  | SUB INDUSTRY   |
|---------------------------|--|
| Automotive                | Automotive Exteriors                                 |
| Building and Construction | Building Component                                   |
| Consumer                  | Sport/Leisure, Home Appliances, Commercial Appliance |
| Industrial                | Industrial General                                   |

## TYPICAL PROPERTY VALUES

Revision 20231109

| PROPERTIES                              | TYPICAL VALUES | UNITS             | TEST METHODS |
|---|----------------|-------------------|--------------|
| <b>MECHANICAL <sup>(1)</sup></b>        |                |                   |              |
| Tensile Stress, break                   | 181            | MPa               | ISO 527      |
| Tensile Strain, break                   | 2              | %                 | ISO 527      |
| Tensile Modulus, 1 mm/min               | 12100          | MPa               | ISO 527      |
| Flexural Stress                         | 250            | MPa               | ISO 178      |
| Flexural Modulus                        | 10290          | MPa               | ISO 178      |
| <b>IMPACT <sup>(1)</sup></b>            |                |                   |              |
| Izod Impact, unnotched 80*10*4 +23°C    | 68             | kJ/m <sup>2</sup> | ISO 180/1U   |
| Izod Impact, notched 80*10*4 +23°C      | 25             | kJ/m <sup>2</sup> | ISO 180/1A   |
| <b>THERMAL <sup>(1)</sup></b>           |                |                   |              |
| HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm  | 225            | °C                | ISO 75/Bf    |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm   | 222            | °C                | ISO 75/Af    |
| <b>PHYSICAL <sup>(1)</sup></b>          |                |                   |              |
| Density                                 | 1.49           | g/cm <sup>3</sup> | ISO 1183     |
| <b>INJECTION MOLDING <sup>(2)</sup></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                |              |

| PROPERTIES                | TYPICAL VALUES | UNITS | TEST METHODS |
|---------------------------|----------------|-------|--------------|
| Rear - Zone 1 Temperature | 250 – 260      | °C    |              |
| Mold Temperature          | 80 – 95        | °C    |              |
| Back Pressure             | 0.3 – 0.7      | MPa   |              |
| Screw Speed               | 30 – 60        | rpm   |              |

- (1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (2) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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