

# LNPT<sup>™</sup> VERTON<sup>™</sup> COMPOUND RV00AXX9

RF-700-10

## DESCRIPTION

LNP VERTON RV00AXX9 is a compound based on Polyamide 66 (Nylon 66) resin containing 50% long glass fiber. Added features include Structural.

### GENERAL INFORMATION

|               |                                                      |
|---------------|------------------------------------------------------|
| Features      | High stiffness/Strength, No PFAS intentionally added |
| Fillers       | Long Glass Fiber                                     |
| Polymer Types | Polyamide 66 (Nylon 66)                              |

### INDUSTRY

Automotive  
Building and Construction  
Consumer  
Industrial

### SUB INDUSTRY

Automotive Exteriors  
Building Component  
Sport/Leisure, Home Appliances, Commercial Appliance  
Electrical, Industrial General

## TYPICAL PROPERTY VALUES

Revision 20231109

| PROPERTIES                                          | TYPICAL VALUES | UNITS             | TEST METHODS |
|-----------------------------------------------------|----------------|-------------------|--------------|
| <b>MECHANICAL <sup>(1)</sup></b>                    |                |                   |              |
| Tensile Stress, break, 5 mm/min                     | 268            | MPa               | ISO 527      |
| Tensile Strain, break, 5 mm/min                     | 2              | %                 | ISO 527      |
| Tensile Modulus, 1 mm/min                           | 17600          | MPa               | ISO 527      |
| Flexural Stress, break, 2 mm/min                    | 405            | MPa               | ISO 178      |
| Flexural Modulus, 2 mm/min                          | 15500          | MPa               | ISO 178      |
| <b>IMPACT <sup>(1)</sup></b>                        |                |                   |              |
| Izod Impact, unnotched 80*10*4 +23°C                | 100            | kJ/m <sup>2</sup> | ISO 180/1U   |
| Izod Impact, notched 80*10*4 +23°C                  | 35             | kJ/m <sup>2</sup> | ISO 180/1A   |
| <b>THERMAL <sup>(1)</sup></b>                       |                |                   |              |
| CTE, 23°C to 60°C, flow                             | 2.4E-05        | 1/°C              | ISO 11359-2  |
| CTE, 23°C to 60°C, xflow                            | 5.4E-05        | 1/°C              | ISO 11359-2  |
| HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm              | 265            | °C                | ISO 75/Bf    |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm               | 262            | °C                | ISO 75/Af    |
| Relative Temp Index, Elec <sup>(2)</sup>            | 105            | °C                | UL 746B      |
| Relative Temp Index, Mech w/impact <sup>(2)</sup>   | 110            | °C                | UL 746B      |
| Relative Temp Index, Mech w/o impact <sup>(2)</sup> | 110            | °C                | UL 746B      |
| <b>PHYSICAL <sup>(1)</sup></b>                      |                |                   |              |
| Mold Shrinkage, flow, 24 hrs <sup>(3)</sup>         | 0.24           | %                 | ISO 294      |
| Mold Shrinkage, xflow, 24 hrs <sup>(3)</sup>        | 0.79           | %                 | ISO 294      |
| Density                                             | 1.57           | g/cm <sup>3</sup> | ISO 1183     |
| Moisture Absorption (23°C / 50% RH)                 | 0.8            | %                 | ISO 62       |

| PROPERTIES                                        | TYPICAL VALUES                   | UNITS    | TEST METHODS |
|---------------------------------------------------|----------------------------------|----------|--------------|
| ELECTRICAL <sup>(2)</sup>                         |                                  |          |              |
| Comparative Tracking Index (UL) {PLC}             | 0                                | PLC Code | UL 746A      |
| Hot-Wire Ignition (HWI), PLC 0 <sup>(2)</sup>     | ≥1.5                             | mm       | UL 746A      |
| Hot-Wire Ignition (HWI), PLC 2 <sup>(2)</sup>     | ≥0.75                            | mm       | UL 746A      |
| High Amp Arc Ignition (HAI), PLC 0 <sup>(2)</sup> | ≥0.75                            | mm       | UL 746A      |
| High Voltage Arc Track Rate {PLC}                 | 0                                | PLC Code | UL 746A      |
| Arc Resistance, Tungsten {PLC}                    | 6                                | PLC Code | ASTM D495    |
| FLAME CHARACTERISTICS <sup>(2)</sup>              |                                  |          |              |
| UL Yellow Card Link                               | <a href="#">E45329-101282650</a> | -        | -            |
| UL Recognized, 94HB Flame Class Rating            | ≥0.75                            | mm       | UL 94        |

(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) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

(3) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

## ADDITIONAL PRODUCT NOTES

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentional PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.

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