



## LNP™ VERTON™ Compound RVL29

### Americas: COMMERCIAL

Also known as: LNP™ VERTON™ Compound RFL-8029

Product reorder name: RVL29

LNP VERTON™ RVL29 is a compound based on Nylon 66 resin containing 45% Long Glass Fiber, 10% PTFE. Added features of this material include: Wear Resistant, Structural.

| TYPICAL PROPERTIES <sup>1</sup>              | TYPICAL VALUE | Unit                                            | Standard             |
|----------------------------------------------|---------------|-------------------------------------------------|----------------------|
| <b>MECHANICAL</b>                            |               |                                                 |                      |
| Tensile Stress, break                        | 231           | MPa                                             | ISO 527              |
| Tensile Strain, break                        | 2.3           | %                                               | ISO 527              |
| Flexural Stress                              | 362           | MPa                                             | ISO 178              |
| Flexural Modulus                             | 14100         | MPa                                             | ISO 178              |
| <b>IMPACT</b>                                |               |                                                 |                      |
| Izod Impact, notched 80*10*4 +23°C           | 29            | kJ/m <sup>2</sup>                               | ISO 180/1A           |
| <b>THERMAL</b>                               |               |                                                 |                      |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm        | 258           | °C                                              | ISO 75/Af            |
| <b>PHYSICAL</b>                              |               |                                                 |                      |
| Wear Factor Washer                           | 21            | 10 <sup>-10</sup> in <sup>5</sup> -min/ft-lb-hr | ASTM D 3702 Modified |
| Dynamic COF                                  | 0.39          | -                                               | ASTM D 3702 Modified |
| Static COF                                   | 0.4           | -                                               | ASTM D 3702 Modified |
| Density                                      | 1.65          | g/cm <sup>3</sup>                               | ISO 1183             |
| <b>FLAME CHARACTERISTICS</b>                 |               |                                                 |                      |
| UL Compliant, 94HB Flame Class Rating (3)(4) | 1.5           | mm                                              | UL 94 by SABIC-IP    |



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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            | 290 - 305     | °C   |
| Front - Zone 3 Temperature  | 290 - 300     | °C   |
| Middle - Zone 2 Temperature | 290 - 300     | °C   |
| Rear - Zone 1 Temperature   | 280 - 295     | °C   |
| Mold Temperature            | 95 - 110      | °C   |
| Back Pressure               | 0.2 - 0.3     | MPa  |
| Screw Speed                 | 30 - 60       | rpm  |