

## Technical Data Sheet

### Vitamide AR13N



Polyamide 66

#### Product Description

Vitamide AR13N is a Polyamide 66 Glass Fiber, 15% filled material and is typically used in Injection Molding applications.

**Processing Method** Injection Molding

**Application** Housings

**Filler/Reinforcement** Glass Fiber, 15%

| Typical Properties                                      | Nominal Value       | Units             | Test Method |
|---------------------------------------------------------|---------------------|-------------------|-------------|
| <b>Physical</b>                                         |                     |                   |             |
| Density                                                 | 1.25                | g/cm <sup>3</sup> | ISO 1183    |
| <b>Mechanical</b>                                       |                     |                   |             |
| Tensile Stress at Yield                                 | 125                 | MPa               | ISO 527-2   |
| Tensile Strain at Break                                 | 4                   | %                 | ISO 527-2   |
| Flexural Modulus                                        | 5000                | MPa               | ISO 178     |
| Flexural Stress                                         | 175                 | MPa               | ISO 178     |
| <b>Impact</b>                                           |                     |                   |             |
| Notched Izod Impact Strength                            | 6                   | kJ/m <sup>2</sup> | ISO 180     |
| <b>Thermal</b>                                          |                     |                   |             |
| Deflection Temperature Under Load Unannealed (0.45 MPa) | >220                | °C                | ISO 75-2/B  |
| Deflection Temperature Under Load Unannealed (1.80 MPa) | >210                | °C                | ISO 75-2/A  |
| DSC Melting Point                                       | 255                 | °C                | ISO 3146    |
| <b>Electrical</b>                                       |                     |                   |             |
| Dielectric Strength, (2.00 mm)                          | 34                  | kV/mm             | IEC 60243-1 |
| Comparative Tracking Index (CTI), (Solution A)          | >600                | V                 | IEC 60112   |
| Surface Resistivity                                     | 1000000000<br>00000 | ohm               | IEC 60093   |
| <b>Flammable</b>                                        |                     |                   |             |
| Burning Rate                                            |                     |                   |             |
| (2.00 mm)                                               | <100                | mm/min            | FMVSS 302   |
| (2.00 mm)                                               | <100                | mm/min            | ISO 3795    |
| <b>UL Information</b>                                   |                     |                   |             |
| Flame Rating                                            | HB                  |                   | UL 94       |
| <b>Injection Parameters</b>                             |                     |                   |             |
|                                                         | Nominal Value       | Units             |             |
| Drying Time                                             | 3.0 to 4.0          | hr                |             |
| Drying Temperature                                      | 80                  | °C                |             |
| Processing (Melt) Temp                                  | 280 to 300          | °C                |             |
| Mold Temperature                                        | 60 to 120           | °C                |             |