

## Technical Data Sheet

### Vitamide BW36WT 2736/1

Polyamide 6

#### Product Description

Vitamide BW36WT 2736/1 is a Polyamide 6 Glass Bead, 10%, Glass Fiber, 20% filled material and is typically used in Injection Molding applications.

|                      |                                   |
|----------------------|-----------------------------------|
| Processing Method    | Injection Molding                 |
| Additive             | Flame Retardant                   |
| Filler/Reinforcement | Glass Bead, 10%; Glass Fiber, 20% |

| Typical Properties                                      | Nominal Value | Units             | Test Method    |
|---------------------------------------------------------|---------------|-------------------|----------------|
| <b>Physical</b>                                         |               |                   |                |
| Density                                                 | 1.57          | g/cm <sup>3</sup> | ISO 1183       |
| <b>Mechanical</b>                                       |               |                   |                |
| Tensile Stress at Yield                                 | 115           | MPa               | ISO 527-2      |
| Tensile Strain at Break                                 | 2             | %                 | ISO 527-2      |
| Flexural Modulus                                        | 7000          | MPa               | ISO 178        |
| Flexural Stress                                         | 160           | 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) | 190           | °C                | ISO 75-2/A     |
| DSC Melting Point                                       | 222           | °C                | ISO 3146       |
| <b>Flammable</b>                                        |               |                   |                |
| Burning Rate                                            |               |                   |                |
| (2.00 mm)                                               | <100          | mm/min            | ISO 3795       |
| (2.00 mm)                                               | <100          | mm/min            | FMVSS 302      |
| Glow Wire Ignition Temperature                          | 850           | °C                | IEC 60695-2-13 |
| <b>UL Information</b>                                   |               |                   |                |
| Flame Rating                                            | HB            |                   | UL 94          |

| Injection Parameters   | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time            | 3.0 to 4.0    | hr    |
| Drying Temperature     | 80            | °C    |
| Processing (Melt) Temp | 250 to 280    | °C    |
| Mold Temperature       | 60 to 100     | °C    |