

## Technical Data Sheet

### Vitamide 66 AB18 NATNT6046



Polyamide 66

#### Product Description

General purpose, 40% Glass Bead filled Polyamide 66. Suitable for a wide range of applications this grade offers good balance dimensional stability, strength and rigidity. Available with: Enhanced UV (AB28) Heat stability (AB38) Oil Heat Glycol Hydrolysis resistance (AB68) UV and Heat resistance (AB78) Hydrolysis resistance (AB88) Colour matched compounds and customer specific performance requirements are available on request.

**Processing Method** Injection Molding  
**Filler/Reinforcement** Glass Bead, 40%

| Typical Properties                                      | Nominal Value       | Units             | Test Method |
|---------------------------------------------------------|---------------------|-------------------|-------------|
| <b>Physical</b>                                         |                     |                   |             |
| Density                                                 | 1.44                | g/cm <sup>3</sup> | ISO 1183    |
| <b>Mechanical</b>                                       |                     |                   |             |
| Tensile Strain at Break                                 | 3                   | %                 | ISO 527-2   |
| Flexural Modulus                                        | 4400                | MPa               | ISO 178     |
| Tensile Stress at Break                                 | 85                  | MPa               | ISO 527-2   |
| Flexural Stress                                         | 130                 | MPa               | ISO 178     |
| <b>Impact</b>                                           |                     |                   |             |
| Notched Izod Impact Strength                            | 4                   | 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) | 200                 | °C                | ISO 75-2/A  |
| DSC Melting Point                                       | 255                 | °C                | ISO 3146    |
| <b>Electrical</b>                                       |                     |                   |             |
| Comparative Tracking Index (CTI), (Solution A)          | 600                 | V                 | IEC 60112   |
| Surface Resistivity                                     | 1000000000<br>00000 | ohm               | IEC 60093   |
| <b>Flammable</b>                                        |                     |                   |             |
| Burning Rate, (FMVSS 302)                               | <100                | mm/min            | FMVSS 302   |
| <b>Additional Information</b>                           |                     |                   |             |
| Water Absorption 23C/50RH                               | 0.9                 | %                 | ISO 62      |
| <b>UL Information</b>                                   |                     |                   |             |
| Flame Rating, (1.6 mm)                                  | 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                |             |