

## Technical Data Sheet

### *Vitamide* AR36N 1644/1



Polyamide 66

#### Product Description

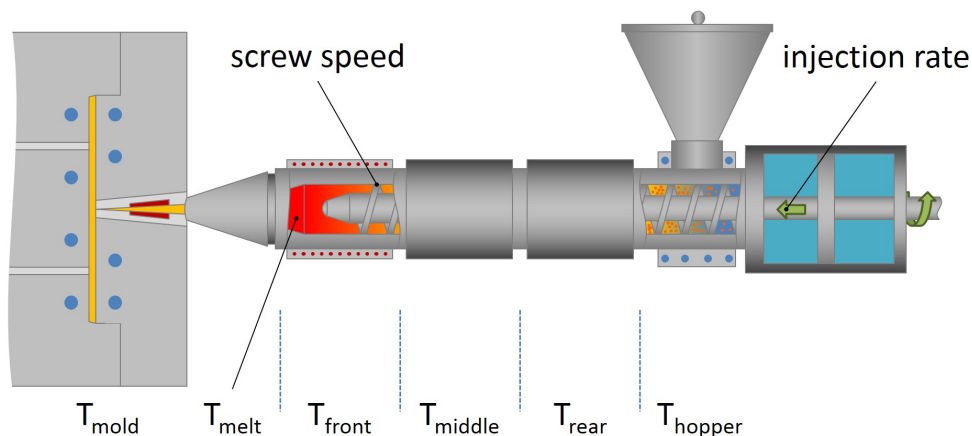
*Vitamide* AR36N 1644/1 is a Polyamide 66 Glass Fiber, 30% filled material and is typically used in Injection Molding applications. Features include: Heat Stabilized.

#### Regulatory Status

For regulatory compliance information, see *Vitamide* AR36N 1644/1 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Status</b>               | Limited Issue                                                          |
| <b>Availability</b>         | Africa-Middle East; Asia-Pacific; Europe; Latin America; North America |
| <b>Processing Method</b>    | Injection Molding                                                      |
| <b>Attribute</b>            | Heat Stabilized                                                        |
| <b>Additive</b>             | Heat Stabilizer                                                        |
| <b>Application</b>          | Filtration Media                                                       |
| <b>Filler/Reinforcement</b> | Glass Fiber, 30%                                                       |

| Typical Properties                                      | Nominal Value        | Units             | Test Method    |
|---------------------------------------------------------|----------------------|-------------------|----------------|
| <b>Physical</b>                                         |                      |                   |                |
| Density                                                 | 1.37                 | g/cm <sup>3</sup> | ISO 1183       |
| <b>Mechanical</b>                                       |                      |                   |                |
| Tensile Stress at Yield                                 | 190                  | MPa               | ISO 527-2      |
| Tensile Strain at Break                                 | 3.5                  | %                 | ISO 527-2      |
| Flexural Modulus                                        | 10000                | MPa               | ISO 178        |
| Flexural Stress                                         | 260                  | MPa               | ISO 178        |
| <b>Impact</b>                                           |                      |                   |                |
| Notched Izod Impact Strength                            | 14                   | kJ/m <sup>2</sup> | ISO 180        |
| <b>Thermal</b>                                          |                      |                   |                |
| Deflection Temperature Under Load Unannealed (0.45 MPa) | 260                  | °C                | ISO 75-2/B     |
| Deflection Temperature Under Load Unannealed (1.80 MPa) | 255                  | °C                | ISO 75-2/A     |
| DSC Melting Point                                       | 260                  | °C                | ISO 3146       |
| <b>Electrical</b>                                       |                      |                   |                |
| Dielectric Strength, (2.00 mm)                          | 34                   | kV/mm             | IEC 60243-1    |
| Comparative Tracking Index (CTI), (Solution A)          | 450                  | V                 | IEC 60112      |
| Surface Resistivity                                     | 10000000000<br>00000 | ohm               | IEC 60093      |
| <b>Flammable</b>                                        |                      |                   |                |
| Burning Rate                                            |                      |                   |                |
| (2.00 mm)                                               | 21                   | mm/min            | FMVSS 302      |
| (2.00 mm)                                               | 21                   | mm/min            | ISO 3795       |
| Glow Wire Ignition Temperature                          | 700                  | °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 | 280 to 300    | °C    |
| Mold Temperature       | 60 to 120     | °C    |

## Notes

These are typical property values not to be construed as specification limits.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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