

## Technical Data Sheet

### *Vitamide* AI10BK 3006/1



Polyamide 66

#### Product Description

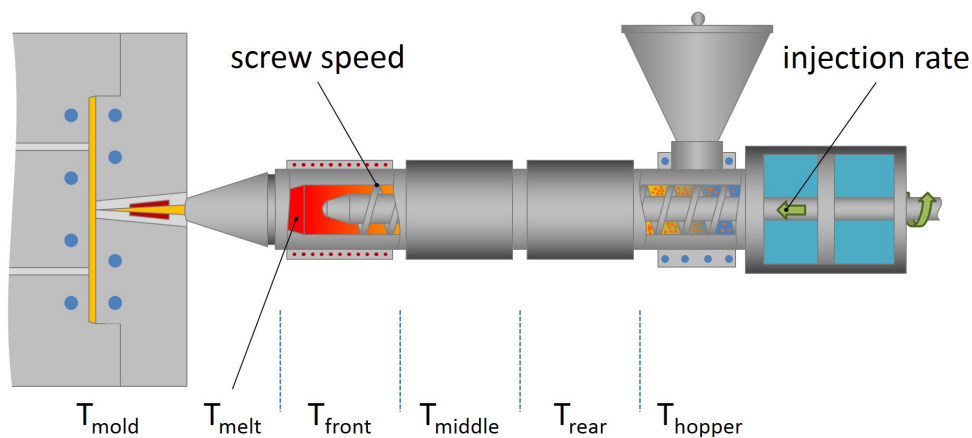
*Vitamide* AI10BK 3006/1 is a Polyamide 66 material and is typically used in Injection Molding applications. Features include: Impact Modified.

#### Regulatory Status

For regulatory compliance information, see AI10BK 3006/1 [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>         | Impact Modified                                                        |
| <b>Additive</b>          | Impact Modifier                                                        |

| Typical Properties                                      | Nominal Value | Units             | Test Method |
|---------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                         |               |                   |             |
| Density                                                 | 1.12          | g/cm <sup>3</sup> | ISO 1183    |
| <b>Mechanical</b>                                       |               |                   |             |
| Tensile Stress at Yield                                 | 75            | MPa               | ISO 527-2   |
| Tensile Strain at Break                                 | 30            | %                 | ISO 527-2   |
| Flexural Modulus                                        | 2600          | MPa               | ISO 178     |
| Flexural Stress                                         | 100           | MPa               | ISO 178     |
| <b>Impact</b>                                           |               |                   |             |
| Notched Izod Impact Strength                            | 8             | kJ/m <sup>2</sup> | ISO 180     |
| <b>Thermal</b>                                          |               |                   |             |
| Deflection Temperature Under Load Unannealed (0.45 MPa) | 185           | °C                | ISO 75-2/B  |
| Deflection Temperature Under Load Unannealed (1.80 MPa) | 80            | °C                | ISO 75-2/A  |
| DSC Melting Point                                       | 255           | °C                | ISO 3146    |
| <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 | 270 to 290    | °C    |
| Mold Temperature       | 60 to 100     | °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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