

Technical Data Sheet

Vitamide AI12BK 3068/1



Polyamide 66

Product Description

Vitamide AI12BK 3068/1 is a Polyamide 66 material and is typically used in Injection Molding applications. Features include: High Impact Resistance.

Regulatory Status

For regulatory compliance information, see AI12BK 3068/1 [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America; North America
Processing Method	Injection Molding
Attribute	High Impact Resistance
Application	Closures; Machine/Mechanical Parts

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.11	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield	70	MPa	ISO 527-2
Tensile Strain at Break	35	%	ISO 527-2
Flexural Modulus	1700	MPa	ISO 178
Flexural Stress	85	MPa	ISO 178
Impact			
Notched Izod Impact Strength	15	kJ/m ²	ISO 180
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa)	180	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	65	°C	ISO 75-2/A
DSC Melting Point	250	°C	ISO 3146
UL Information			
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/>.

© LyondellBasell Industries Holdings, B.V. 2018

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.