

Technical Data Sheet



Vitamide AB76 H4

Polyamide 66
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Bead, 30% Filler by Weight		
Additive	• Heat Stabilizer	• UV Stabilizer	
Features	• Good Glycol Resistance • Heat Stabilized	• Hydrolysis Resistant • Oil Resistant	• UV Resistant
Uses	• Automotive Under the Hood		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.35 g/cm ³	1.35 g/cm ³	ISO 1183
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	637000 psi	4390 MPa	ISO 527-1
Tensile Stress (Break)	10600 psi	73.0 MPa	ISO 527-2
Tensile Strain (Break)	3.2 %	3.2 %	ISO 527-2
Flexural Modulus	497000 psi	3430 MPa	ISO 178
Flexural Stress	18900 psi	130 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength	1.4 ft·lb/in ²	3.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	7.6 ft·lb/in ²	16 kJ/m ²	ISO 179
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	> 363 °F	> 184 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	151 °F	66.0 °C	ISO 75-2/A
Melting Temperature (DSC)	500 °F	260 °C	ISO 3146
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	1.0E+13 ohms	1.0E+13 ohms	IEC 60093
Electric Strength (0.0787 in (2.00 mm))	760 V/mil	30 kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	450 V	450 V	IEC 60112
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	HB	HB	UL 94
Glow Wire Flammability Index	1340 °F	725 °C	IEC 60695-2-12
Glow Wire Ignition Temperature	1250 °F	675 °C	IEC 60695-2-13

Technical Data Sheet



Vitamide AB76 H4

Polyamide 66
LyondellBasell Industries
Engineering Plastics



Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	536 to 572 °F	280 to 300 °C
Mold Temperature	140 to 248 °F	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.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

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

© LyondellBasell Industries Holdings, B.V. 2024

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.