

Technical Data Sheet

Vitamide 66 AR3X NAT



Polyamide 66

Product Description

Vitamide VIT 66 AR3X NAT is a Polyamide 66 Glass Fiber, 50% filled material and is typically used in Injection Molding applications. Features include: Heat Stabilized.

Regulatory Status

For regulatory compliance information, see *Vitamide* 66 AR3X NAT [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Limited Issue
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America; North America
Processing Method	Injection Molding
Attribute	Heat Stabilized
Additive	Heat Stabilizer
Application	Closures
Filler/Reinforcement	Glass Fiber, 50%

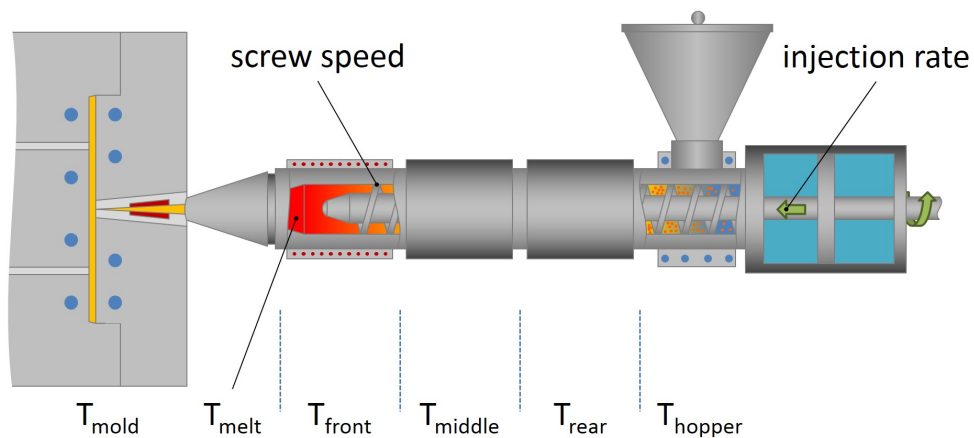
Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.58	g/cm ³	ISO 1183
Viscosity Number, (96% H ₂ SO ₄ (Sulphuric Acid))	145	cm ³ /g	ISO 307
Mechanical			
Tensile Strain at Break			
(Type 1A, 5 mm/min)	2.5	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	3.3	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	15500	MPa	ISO 178
Tensile Stress at Break			
(Type 1A, 5 mm/min)	260	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	210	MPa	ISO 527-2
Tensile Modulus			
(5 mm/min, Type 1A)	16500	MPa	ISO 527-1
(5 mm/min, Type 1A) - Conditioned	13000	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 3.5%)	405	MPa	ISO 178
(2.0 mm/min, 3.5%)	400	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	18	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	15	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	20	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	90	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	90	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	No Break		ISO 179

Thermal

Deflection Temperature Under Load Unannealed (0.45 MPa)	>250 °C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	>250 °C	ISO 75-2/A

Flammable

Burning Rate		
(2.00 mm)	<100 mm/min	ISO 3795
(2.00 mm)	<100 mm/min	FMVSS 302



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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