

Technical Data Sheet

Vitamide AI14N 2196/1



Polyamide 66

Product Description

Vitamide AI14N 2196/1 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 AI14N 2196/1 [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	High Impact Resistance
Application	Valves/Valve Parts

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.09	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield	50	MPa	ISO 527-2
Tensile Strain at Break	70	%	ISO 527-2
Flexural Modulus	1600	MPa	ISO 178
Flexural Stress	65	MPa	ISO 178
Impact			
Notched Izod Impact Strength	70	kJ/m ²	ISO 180
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa)	>175	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	>65.0	°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/>.

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