

Technical Data Sheet

Vitamide AI12

Polyamide 66
LyondellBasell Industries
Engineering Plastics

General			
Features	• High Impact Resistance		
Uses	• Closures	• Machine/Mechanical Parts	
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.11 g/cm³	1.11 g/cm³	ISO 1183
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield)	10200 psi	70.0 MPa	ISO 527-2
Tensile Strain (Break)	35 %	35 %	ISO 527-2
Flexural Modulus	247000 psi	1700 MPa	ISO 178
Flexural Stress	12300 psi	85.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact Strength	7.1 ft·lb/in²	15 kJ/m²	ISO 180
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	356 °F	180 °C	ISO 75-2/B
264 Psi (1.8 Mpa), Unannealed	149 °F	65.0 °C	ISO 75-2/A
Melting Temperature (DSC)	482 °F	250 °C	ISO 3146
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	HB	HB	UL 94

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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	518 to 554 °F	270 to 290 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

These are typical property values not to be construed as specification limits.