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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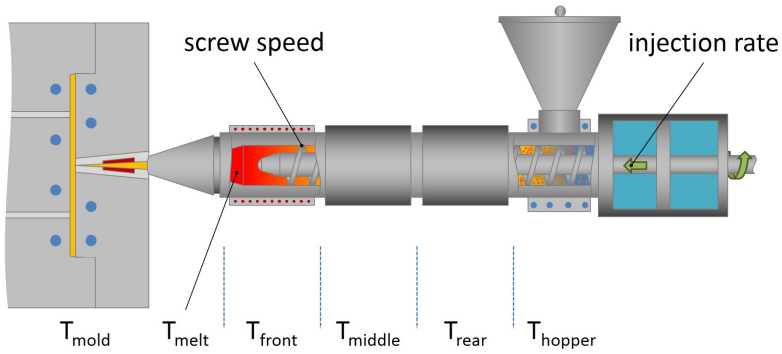

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	518 to 554 °F	270 to 290 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

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