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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.

Processing Method	Injection Molding
Attribute	High Impact Resistance
Application	Valves/Valve Parts

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.09	g/cm³	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/m²	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