

## Technical Data Sheet

### *Vitamide* AI14BK 2290/1



Polyamide 66

#### Product Description

*Vitamide* AI14BK 2290/1 is a Polyamide 66 material and is typically used in Injection Molding applications. Features include: High Impact Resistance.

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

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Density	1.09	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
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
<b>Impact</b>			
Notched Izod Impact Strength	70	kJ/m <sup>2</sup>	ISO 180
<b>Thermal</b>			
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
<b>UL Information</b>			
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