

## Technical Data Sheet

### *Vitamide* AR17N M1 NATURAL



Polyamide 66

#### Product Description

*Vitamide* AR17N M1 NATURAL is a Polyamide 66 Glass Fiber, 33% filled material and is typically used in Injection Molding applications.

**Processing Method** Injection Molding

**Filler/Reinforcement** Glass Fiber, 33%

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Density	1.4	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Stress at Yield	195	MPa	ISO 527-2
Tensile Strain at Break	3.5	%	ISO 527-2
Flexural Modulus	10000	MPa	ISO 178
Flexural Stress	270	MPa	ISO 178
<b>Impact</b>			
Notched Izod Impact Strength	14	kJ/m <sup>2</sup>	ISO 180
<b>Thermal</b>			
Deflection Temperature Under Load Unannealed (0.45 MPa)	260	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	255	°C	ISO 75-2/A
DSC Melting Point	260	°C	ISO 3146
<b>Electrical</b>			
Dielectric Strength, (2.00 mm)	34	kV/mm	IEC 60243-1
Comparative Tracking Index (CTI), (Solution A)	450	V	IEC 60112
Surface Resistivity	1000000000 00000	ohm	IEC 60093
<b>Flammable</b>			
Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302
Glow Wire Ignition Temperature	650	°C	IEC 60695-2-13
<b>UL Information</b>			
Flame Rating	HB		UL 94
<b>Injection Parameters</b>			
Drying Time	3.0 to 4.0	hr	
Drying Temperature	80	°C	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	60 to 120	°C	