

## Technical Data Sheet

### Vitamide BF12N 0-0181



Polyamide 6

#### Product Description

Vitamide BF12N 0-0181 is a Polyamide 6 Mineral, 10% filled material and is typically used in Injection Molding applications. Features include: Fast Molding Cycle.

<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	Fast Molding Cycle
<b>Additive</b>	Flame Retardant
<b>Application</b>	Electrical Parts; Plugs
<b>Filler/Reinforcement</b>	Mineral, 10%

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Density	1.24	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Stress at Yield	70	MPa	ISO 527-2
Tensile Strain at Break	10	%	ISO 527-2
Flexural Modulus	2900	MPa	ISO 178
Flexural Stress	100	MPa	ISO 178
<b>Impact</b>			
Notched Izod Impact Strength	4.5	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)	>75.0	°C	ISO 75-2/A
DSC Melting Point	221	°C	ISO 3146
<b>Electrical</b>			
Comparative Tracking Index (CTI), (Solution A)	600	V	IEC 60112
<b>Flammable</b>			
Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
Glow Wire Ignition Temperature	960	°C	IEC 60695-2-13
<b>UL Information</b>			
Flame Rating	V-2		UL 94

Injection Parameters	Nominal Value	Units
Drying Time	4.0 to 6.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	230 to 240	°C
Mold Temperature	60 to 90	°C