

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.

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

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.24	g/cm ³	ISO 1183
Mechanical			
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
Impact			
Notched Izod Impact Strength	4.5	kJ/m ²	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)	>75.0	°C	ISO 75-2/A
DSC Melting Point	221	°C	ISO 3146
Electrical			
Comparative Tracking Index (CTI), (Solution A)	600	V	IEC 60112
Flammable			
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
UL Information			
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