

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.

Regulatory Status

For regulatory compliance information, see *Vitamide* BF12N 0-0181 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Pending Approval
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America; North America
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

Notes

These are typical property values not to be construed as specification limits.

Processing notes

Melt contacting surfaces should be made of a high quality, corrosive resistant steel. Positive experiences have been made with steel qualities containing > 12% chromium.

Avoid processing at very barrel high temperatures or above the recommended melt temperature range as this can increase risk of deposit onto the tool surfaces. Avoid long residence times. At start and end of production, it is recommended to purge clean with non-flame retardant polymer or a polyolefin.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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