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Technical Data Sheet

Vitamide BR16BK 2-0400

Polyamide 6

Product Description

Vitamide BR16BK 2-0400 is a Polyamide 6 Glass Fiber, 30% filled material and is typically used in Injection Molding applications.

Processing Method	Injection Molding
Application	Plumbing Parts
Filler/Reinforcement	Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.37	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield	180	MPa	ISO 527-2
Tensile Strain at Break	3	%	ISO 527-2
Flexural Modulus	8000	MPa	ISO 178
Flexural Stress	230	MPa	ISO 178
Impact			
Notched Izod Impact Strength	12	kJ/m²	ISO 180
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa)	217	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	205	°C	ISO 75-2/A
DSC Melting Point	221	°C	ISO 3146
Electrical			
Dielectric Strength, (2.00 mm)	22	kV/mm	IEC 60243-1
Comparative Tracking Index (CTI), (Solution A)	550	V	IEC 60112
Surface Resistivity	10000000000000	ohm	IEC 60093
Flammable			
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
UL Information			
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	250 to 280	°C
Mold Temperature	70 to 100	°C