

Technical Data Sheet

Vitamide BY16 BLACK 2-0487



Polyamide 6

Product Description

Vitamide BY16 BLACK 2-0487 is a Polyamide 6 Glass Fiber, 30% filled material and is typically used in Injection Molding applications. Features include: Halogenated.

Processing Method	Injection Molding
Attribute	Halogenated
Additive	Flame Retardant
Application	Electric Motor Housings
Filler/Reinforcement	Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.59	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield	150	MPa	ISO 527-2
Tensile Strain at Break	3	%	ISO 527-2
Flexural Modulus	8000	MPa	ISO 178
Flexural Stress	200	MPa	ISO 178
Impact			
Notched Izod Impact Strength	7	kJ/m ²	ISO 180
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa)	>220	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	200	°C	ISO 75-2/A
DSC Melting Point	222	°C	ISO 3146
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-0		UL 94

Injection Parameters	Nominal Value	Units
Drying Time	3.0 to 4.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	240 to 260	°C
Mold Temperature	60 to 100	°C