

Technical Data Sheet



Vitamide BT36LV BLK S296 2-0910

Polyamide 6

Product Description

Vitamide BT36LV BLACK S296 2-0910 is a Polyamide 6 Glass Fiber, 30% filled material. Features include: Impact Modified.

Attribute	Impact Modified
Additive	Impact Modifier
Application	Lawn & Garden Equipment
Filler/Reinforcement	Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.36	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	7000	MPa	ISO 178
Flexural Stress	190	MPa	ISO 178
Impact			
Notched Izod Impact Strength	15	kJ/m ²	ISO 180
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa)	>200	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	215	°C	ISO 75-2/A
DSC Melting Point	221	°C	ISO 3146
Electrical			
Dielectric Strength, (2.00 mm)	34	kV/mm	IEC 60243-1
Comparative Tracking Index (CTI), (Solution A)	450	V	IEC 60112
Surface Resistivity	1E+15	ohm	IEC 60093
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
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	60 to 100	°C