

## Technical Data Sheet

**Vitamide BY15 WHITE 1-1928**

Polyamide 6

**Product Description**

*Vitamide* BY15 WHITE 1-1928 is a Polyamide 6 Glass Fiber, 25% filled material and is typically used in Injection Molding applications. Features include: Halogenated.

<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	Halogenated
<b>Additive</b>	Flame Retardant
<b>Application</b>	Electric Motor Housings
<b>Filler/Reinforcement</b>	Glass Fiber, 25%

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Density	1.59	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Stress at Yield	135	MPa	ISO 527-2
Tensile Strain at Break	3	%	ISO 527-2
Flexural Modulus	7500	MPa	ISO 178
Flexural Stress	175	MPa	ISO 178
<b>Impact</b>			
Notched Izod Impact Strength	7	kJ/m <sup>2</sup>	ISO 180
<b>Thermal</b>			
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
<b>Flammable</b>			
Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302
Glow Wire Ignition Temperature	960	°C	IEC 60695-2-13
<b>UL Information</b>			
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