

Technical Data Sheet

**Vitamide BR16 IRON 6-2490**



Polyamide 6

**Product Description**

Vitamide BR16 IRON 6-2490 is a Polyamide 6 Glass Fiber, 30% filled material and is typically used in Injection Molding applications.

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

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Density	1.37	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
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
<b>Impact</b>			
Notched Izod Impact Strength	12	kJ/m <sup>2</sup>	ISO 180
<b>Thermal</b>			
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
<b>Electrical</b>			
Dielectric Strength, (2.00 mm)	22	kV/mm	IEC 60243-1
Comparative Tracking Index (CTI), (Solution A)	550	V	IEC 60112
Surface Resistivity	1000000000 0000	ohm	IEC 60093
<b>Flammable</b>			
Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
Glow Wire Ignition Temperature	650	°C	IEC 60695-2-13
<b>UL Information</b>			
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