

## Technical Data Sheet

**Vitamide BI12 IRON 6-1490 C**

Polyamide 6

**Product Description**

*Vitamide* BI12 IRON 6-1490 C is a Polyamide 6 material and is typically used in Injection Molding applications. Features include: High Impact Resistance.

<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	High Impact Resistance
<b>Application</b>	Protective Coverings

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Density	1.11	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Stress at Yield	60	MPa	ISO 527-2
Tensile Strain at Break	50	%	ISO 527-2
Flexural Modulus	1800	MPa	ISO 178
Flexural Stress	80	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)	160	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	60	°C	ISO 75-2/A
DSC Melting Point	221	°C	ISO 3146
<b>Electrical</b>			
Dielectric Strength, (2.00 mm)	21	kV/mm	IEC 60243-1
Comparative Tracking Index (CTI), (Solution A)	600	V	IEC 60112
Surface Resistivity	1000000000 00000	ohm	IEC 60093
<b>Flammable</b>			
Burning Rate (2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302
<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 270	°C
Mold Temperature	60 to 90	°C