

Technical Data Sheet

Vitamide BI12 DARK IRON 6-3130



Polyamide 6

Product Description

Vitamide BI12 DARK IRON 6-3130 is a Polyamide 6 material and is typically used in Injection Molding applications. Features include: High Impact Resistance.

Regulatory Status

For regulatory compliance information, see Vitamide BI12 DARK IRON 6-3130 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Limited Issue
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America; North America
Processing Method	Injection Molding
Attribute	High Impact Resistance
Application	Protective Coverings

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.11	g/cm ³	ISO 1183
Mechanical			
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
Impact			
Notched Izod Impact Strength	12	kJ/m ²	ISO 180
Thermal			
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
Electrical			
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
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 270	°C
Mold Temperature	60 to 90	°C

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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