Technical Data Sheet

Vitamide BI10BK 1714/1

Polyamide 6

Product Description

Vitamide BI10BK 1714/1 is a Polyamide 6 material and is typically used in Injection Molding applications. Features include: Impact Modified.

Processing Method	Injection Molding
Attribute	Impact Modified
Additive	Impact Modifier
Application	Belts/Belt Repair

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.12	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield	75	MPa	ISO 527-2
Tensile Strain at Break	50	%	ISO 527-2
Flexural Modulus	2000	MPa	ISO 178
Flexural Stress	80	MPa	ISO 178
Impact			
Notched Izod Impact Strength	10	kJ/m²	ISO 180
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa)	185	°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	270 to 290	°C
Mold Temperature	60 to 100	°C