

Technical Data Sheet

Vitamide BI22 NAT 0-0204



Polyamide 6

Product Description

Impact Modified, UV stabilized Polyamide 6. Suitable for a wide range of applications this grade offers a good balance of stiffness and impact strength. Colour matched compounds and customer specific performance requirements are available on request.

Processing Method	Injection Molding
Attribute	Impact Modified; UV Stabilized

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.11	g/cm ³	ISO 1183
Mechanical			
Tensile Strain at Break	50	%	ISO 527-2
Flexural Modulus	1600	MPa	ISO 178
Tensile Stress at Break	60	MPa	ISO 527-2
Flexural Stress	80	MPa	ISO 178
Impact			
Notched Izod Impact Strength	18	kJ/m ²	ISO 180
Hardness			
Ball Indentation Hardness, (H 358/30)	110	MPa	ISO 2039-1
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	222	°C	ISO 3146
Flammable			
Burning Rate, (FMVSS)	<100	mm/min	FMVSS
Additional Information			
Molding Shrinkage	1.5	%	ISO 294-4
Water Absorption 24h/23C	1.3	%	ISO 62
UL Information			
Flame Rating, (1.6 mm)	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