

Technical Data Sheet

Vitamide 6 BI12 BLK BK9012



Polyamide 6

Product Description

Vitamide LABR-WAO VIT 6 BI12 BLK BK9012 is a Polyamide 6 material and is typically used in Injection Molding applications. Features include: High Impact Resistance.

| | |
|--------------------------|------------------------|
| 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 |