

# VITAMIDE® BI12

Polyamide 6  
A. Schulman Europe

Message:

VITAMIDE® BI12 is a Polyamide 6 (Nylon 6) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of VITAMIDE® BI12 are:

Flame Rated

RoHS Compliant

Impact Resistant

Typical application of VITAMIDE® BI12: Coating Applications

| General Information                     |                        |                   |             |
|-----------------------------------------|------------------------|-------------------|-------------|
| UL YellowCard                           | E132739-567483         |                   |             |
| Features                                | High Impact Resistance |                   |             |
| Uses                                    | Protective Coverings   |                   |             |
| RoHS Compliance                         | RoHS Compliant         |                   |             |
| Processing Method                       | Injection Molding      |                   |             |
| Physical                                | Nominal Value          | Unit              | Test Method |
| Density                                 | 1.11                   | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                       | 1.5                    | %                 |             |
| Mechanical                              | Nominal Value          | Unit              | Test Method |
| Tensile Stress (Yield)                  | 60.0                   | MPa               | ISO 527-2   |
| Tensile Strain (Break)                  | 50                     | %                 | ISO 527-2   |
| Flexural Modulus                        | 1800                   | MPa               | ISO 178     |
| Flexural Stress                         | 80.0                   | MPa               | ISO 178     |
| Impact                                  | Nominal Value          | Unit              | Test Method |
| Notched Izod Impact Strength            | 12                     | kJ/m <sup>2</sup> | ISO 180     |
| Thermal                                 | Nominal Value          | Unit              | Test Method |
| Heat Deflection Temperature             |                        |                   |             |
| 0.45 MPa, Unannealed                    | 160                    | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                     | 60.0                   | °C                | ISO 75-2/A  |
| Melting Temperature (DSC)               | 221                    | °C                | ISO 3146    |
| Electrical                              | Nominal Value          | Unit              | Test Method |
| Surface Resistivity                     | 1.0E+14                | ohms              | IEC 60093   |
| Electric Strength (2.00 mm)             | 21                     | kV/mm             | IEC 60243-1 |
| Comparative Tracking Index (Solution A) | 600                    | V                 | IEC 60112   |
| Flammability                            | Nominal Value          | Unit              | Test Method |
| Flame Rating                            | HB                     |                   | UL 94       |

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