

# VITAMIDE® BT33

Polyamide 6  
A. Schulman Europe

Message:

VITAMIDE® BT33 is a Polyamide 6 (Nylon 6) material filled with 15% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.  
Important attributes of VITAMIDE® BT33 are:  
Flame Rated  
RoHS Compliant  
Impact Modified

| General Information                     |                                  |                   |             |
|-----------------------------------------|----------------------------------|-------------------|-------------|
| UL YellowCard                           | E132739-567487                   |                   |             |
| Filler / Reinforcement                  | Glass Fiber,15% Filler by Weight |                   |             |
| Additive                                | Impact Modifier                  |                   |             |
| Features                                | Impact Modified                  |                   |             |
| RoHS Compliance                         | RoHS Compliant                   |                   |             |
| Physical                                | Nominal Value                    | Unit              | Test Method |
| Density                                 | 1.24                             | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                       | 0.40 to 0.50                     | %                 |             |
| Mechanical                              | Nominal Value                    | Unit              | Test Method |
| Tensile Stress (Yield)                  | 120                              | MPa               | ISO 527-2   |
| Tensile Strain (Break)                  | 5.0                              | %                 | ISO 527-2   |
| Flexural Modulus                        | 4000                             | MPa               | ISO 178     |
| Flexural Stress                         | 130                              | MPa               | ISO 178     |
| Impact                                  | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact Strength            | 8.0                              | kJ/m <sup>2</sup> | ISO 180     |
| Thermal                                 | Nominal Value                    | Unit              | Test Method |
| Heat Deflection Temperature             |                                  |                   |             |
| 0.45 MPa, Unannealed                    | > 190                            | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                     | > 180                            | °C                | ISO 75-2/A  |
| Melting Temperature (DSC)               | 222                              | °C                | ISO 3146    |
| Electrical                              | Nominal Value                    | Unit              | Test Method |
| Surface Resistivity                     | 1.0E+13                          | ohms              | IEC 60093   |
| Electric Strength (2.00 mm)             | 22                               | kV/mm             | IEC 60243-1 |
| Comparative Tracking Index (Solution A) | 550                              | V                 | IEC 60112   |
| Flammability                            | Nominal Value                    | Unit              | Test Method |
| Flame Rating                            | HB                               |                   | UL 94       |

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