

# VITAMIDE® BF23RD6633

Polyamide 6  
Jackdaw Polymers

Message:

VITAMIDE® BF23RD6633 is a Polyamide 6 (Nylon 6) product. It is available in Europe, Latin America, or North America. Primary characteristic: flame rated.

| General Information               |               |                   |                        |
|-----------------------------------|---------------|-------------------|------------------------|
| Appearance                        | Red           |                   |                        |
| Physical                          | Nominal Value | Unit              | Test Method            |
| Specific Gravity                  | 1.16          | g/cm <sup>3</sup> | ASTM D792, ISO 1183    |
| Water Absorption                  |               |                   |                        |
| 24 hr                             | 1.0           | %                 | ASTM D570              |
| 23°C, 24 hr                       | 1.0           | %                 | ISO 62                 |
| Mechanical                        | Nominal Value | Unit              | Test Method            |
| Tensile Stress                    |               |                   |                        |
| Break                             | 80.0          | MPa               | ISO 527-2              |
| --                                | 80.0          | MPa               | ASTM D638              |
| Tensile Elongation (Break)        | 25            | %                 | ASTM D638, ISO 527-2   |
| Flexural Modulus                  | 3200          | MPa               | ASTM D790, ISO 178     |
| Flexural Strength                 | 95.0          | MPa               | ASTM D790, ISO 178     |
| Impact                            | Nominal Value | Unit              | Test Method            |
| Charpy Unnotched Impact Strength  | 90            | kJ/m <sup>2</sup> | ISO 179                |
| Notched Izod Impact Strength      | 3.5           | kJ/m <sup>2</sup> | ISO 180                |
| Thermal                           | Nominal Value | Unit              | Test Method            |
| Deflection Temperature Under Load |               |                   |                        |
| 0.45 MPa, Unannealed              | 200           | °C                | ASTM D648, ISO 75-2/B  |
| 1.8 MPa, Unannealed               | 75.0          | °C                | ASTM D648, ISO 75-2/A  |
| Melting Temperature               | 218           | °C                | ISO 1218, ASTM D2117   |
| CLTE - Flow                       | 6.5E-5        | cm/cm/°C          | ASTM D696              |
| Electrical                        | Nominal Value | Unit              | Test Method            |
| Surface Resistivity               | 1.0E+15       | ohms              | ASTM D257, IEC 60093   |
| Dielectric Strength               | 37            | kV/mm             | ASTM D149, IEC 60243-1 |
| Comparative Tracking Index        |               |                   |                        |
| Solution A                        | 600           | V                 | IEC 60112              |
| --                                | 600           | V                 | ASTM D3638             |
| Flammability                      | Nominal Value | Unit              | Test Method            |
| Flame Rating (1.60 mm)            | V-0           |                   | UL 94                  |
| Glow Wire Flammability Index      |               |                   | IEC 60695-2-12         |
| 0.750 mm                          | 850           | °C                |                        |
| 1.50 mm                           | 850           | °C                |                        |

|                                |      |    |                        |
|--------------------------------|------|----|------------------------|
| Glow Wire Ignition Temperature |      |    | IEC 60695-2-13         |
| 0.750 mm                       | 775  | °C |                        |
| 1.50 mm                        | 775  | °C |                        |
| Oxygen Index                   | > 30 | %  | ASTM D2863, ISO 4589-2 |

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