

# VITAMIDE® BD16NT6512

Polyamide 6  
Jackdaw Polymers

Message:

VITAMIDE® BD16NT6512 is a Polyamide 6 (Nylon 6) product. It is available in Europe.  
Characteristics include:  
Flame Rated  
Lubricated

| General Information                     |                                |                   |                       |
|-----------------------------------------|--------------------------------|-------------------|-----------------------|
| Additive                                | Graphite Powder Lubricant (9%) |                   |                       |
| Physical                                | Nominal Value                  | Unit              | Test Method           |
| Specific Gravity                        | 1.30                           | g/cm <sup>3</sup> | ASTM D792, ISO 1183   |
| Water Absorption (23°C, 24 hr)          | 2.0                            | %                 | ASTM D570, ISO 62     |
| Mechanical                              | Nominal Value                  | Unit              | Test Method           |
| Tensile Strength (Break)                | 93.0                           | MPa               | ASTM D638, ISO 527-2  |
| Tensile Elongation (Break)              | 4.0                            | %                 | ASTM D638, ISO 527-2  |
| Flexural Modulus                        | 4800                           | MPa               | ASTM D790, ISO 178    |
| Flexural Stress                         |                                |                   |                       |
| --                                      | 170                            | MPa               | ISO 178               |
| Break                                   | 170                            | MPa               | ASTM D790             |
| Impact                                  | Nominal Value                  | Unit              | Test Method           |
| Charpy Notched Impact Strength          | 7.0                            | kJ/m <sup>2</sup> | ISO 179               |
| Charpy Unnotched Impact Strength        | 37                             | kJ/m <sup>2</sup> | ISO 179               |
| Thermal                                 | Nominal Value                  | Unit              | Test Method           |
| Deflection Temperature Under Load       |                                |                   |                       |
| 0.45 MPa, Unannealed                    | 218                            | °C                | ASTM D648, ISO 75-2/B |
| 1.8 MPa, Unannealed                     | 204                            | °C                | ASTM D648, ISO 75-2/A |
| Peak Melting Temperature                | 218                            | °C                | ASTM D2117, ISO 1218  |
| CLTE - Flow                             | 3.0E-5                         | cm/cm/°C          | ASTM D696             |
| Electrical                              | Nominal Value                  | Unit              | Test Method           |
| Volume Resistivity                      | 3.0E+13                        | ohms · cm         | ASTM D257, IEC 60093  |
| Comparative Tracking Index (Solution A) | 260                            | V                 | IEC 60112             |
| Flammability                            | Nominal Value                  | Unit              | Test Method           |
| Flame Rating                            | HB                             |                   | UL 94                 |

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