

# VITAMIDE® BF30WT6405

Polyamide 6  
Jackdaw Polymers

Message:

VITAMIDE® BF30WT6405 is a Polyamide 6 (Nylon 6) product. It is available in Europe.  
Characteristics include:  
Flame Rated  
Flame Retardant

| General Information               |                 |                   |                        |
|-----------------------------------|-----------------|-------------------|------------------------|
| Additive                          | Flame Retardant |                   |                        |
| Features                          | Flame Retardant |                   |                        |
| Appearance                        | White           |                   |                        |
| Physical                          | Nominal Value   | Unit              | Test Method            |
| Specific Gravity                  | 1.24            | g/cm <sup>3</sup> | ASTM D792, ISO 1183    |
| Water Absorption (23°C, 24 hr)    | 1.1             | %                 | ASTM D570, ISO 62      |
| Mechanical                        | Nominal Value   | Unit              | Test Method            |
| Tensile Strength (Break)          | 65.0            | MPa               | ASTM D638, ISO 527-2   |
| Tensile Elongation (Break)        | 5.0             | %                 | ASTM D638, ISO 527-2   |
| Flexural Modulus                  | 4500            | MPa               | ASTM D790, ISO 178     |
| Flexural Stress                   |                 |                   |                        |
| --                                | 90.0            | MPa               | ISO 178                |
| Break                             | 90.0            | MPa               | ASTM D790              |
| Impact                            | Nominal Value   | Unit              | Test Method            |
| Charpy Unnotched Impact Strength  | 20              | kJ/m <sup>2</sup> | ISO 179                |
| 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               | 70.0            | °C                | ASTM D648, ISO 75-2/A  |
| Peak Melting Temperature          | 218             | °C                | ASTM D2117, ISO 1218   |
| CLTE - Flow                       | 3.5E-5          | cm/cm/°C          | ASTM D696              |
| Electrical                        | Nominal Value   | Unit              | Test Method            |
| Volume Resistivity                | 6.0E+15         | ohms · cm         | ASTM D257, IEC 60093   |
| Flammability                      | Nominal Value   | Unit              | Test Method            |
| Flame Rating                      | V-0             |                   | UL 94                  |
| Oxygen Index                      | 30              | %                 | ASTM D2863, ISO 4589-2 |

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