

# VITAMIDE® BK30GY6531

Polyamide 6  
Jackdaw Polymers

Message:

VITAMIDE® BK30GY6531 is a Polyamide 6 (Nylon 6) product. It is available in Europe. Primary characteristic: flame rated.

| General Information               |               |           |                        |
|-----------------------------------|---------------|-----------|------------------------|
| Appearance                        | Grey          |           |                        |
| Physical                          | Nominal Value | Unit      | Test Method            |
| Specific Gravity                  | 1.13          | g/cm³     | ASTM D792, ISO 1183    |
| Water Absorption (23°C, 24 hr)    | 2.6           | %         | ASTM D570, ISO 62      |
| Mechanical                        | Nominal Value | Unit      | Test Method            |
| Tensile Strength (Break)          | 73.0          | MPa       | ASTM D638, ISO 527-2   |
| Tensile Elongation (Break)        | 3.0           | %         | ASTM D638, ISO 527-2   |
| Flexural Modulus                  | 2200          | MPa       | ASTM D790, ISO 178     |
| Flexural Stress                   |               |           |                        |
| --                                | 83.0          | MPa       | ISO 178                |
| Break                             | 83.0          | MPa       | ASTM D790              |
| Impact                            | Nominal Value | Unit      | Test Method            |
| Charpy Notched Impact Strength    | 8.0           | kJ/m²     | ISO 179                |
| Charpy Unnotched Impact Strength  | No Break      |           | ISO 179                |
| Thermal                           | Nominal Value | Unit      | Test Method            |
| Deflection Temperature Under Load |               |           |                        |
| 0.45 MPa, Unannealed              | 193           | °C        | ASTM D648, ISO 75-2/B  |
| 1.8 MPa, Unannealed               | 65.0          | °C        | ASTM D648, ISO 75-2/A  |
| Peak Melting Temperature          | 218           | °C        | ASTM D2117, ISO 1218   |
| CLTE - Flow                       | 7.0E-5        | cm/cm/°C  | ASTM D696              |
| Electrical                        | Nominal Value | Unit      | Test Method            |
| Volume Resistivity                | 5.0E+13       | ohms · cm | ASTM D257, IEC 60093   |
| Dielectric Strength               | 35            | 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                      | V-2           |           | UL 94                  |

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