

# VITAMIDE® BS10NT6558

Polyamide 6  
Jackdaw Polymers

Message:

VITAMIDE® BS10NT6558 is a Polyamide 6 (Nylon 6) product. It is available in Europe. Primary characteristic: flame rated.

| General Information                     |               |          |                        |
|-----------------------------------------|---------------|----------|------------------------|
| Appearance                              | Natural Color |          |                        |
| Physical                                | Nominal Value | Unit     | Test Method            |
| Specific Gravity                        | 1.13          | g/cm³    | ASTM D792, ISO 1183    |
| Mechanical                              | Nominal Value | Unit     | Test Method            |
| Tensile Strength (Break)                | 70.0          | MPa      | ASTM D638, ISO 527-2   |
| Tensile Elongation (Break)              | 250           | %        | ASTM D638, ISO 527-2   |
| Flexural Modulus                        | 2100          | 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          | 18            | 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              |
| Flammability                            | Nominal Value | Unit     | Test Method            |
| Flame Rating                            | V-2           |          | UL 94                  |

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