

# VITAMIDE® BI12NT6521

Polyamide 6  
Jackdaw Polymers

Message:

VITAMIDE® BI12NT6521 is a Polyamide 6 (Nylon 6) product. It is available in Europe.  
Characteristics include:  
Flame Rated  
Impact Modified

| General Information                     |                 |                   |                        |
|-----------------------------------------|-----------------|-------------------|------------------------|
| Additive                                | Impact Modifier |                   |                        |
| Features                                | Impact Modified |                   |                        |
| Appearance                              | Natural Color   |                   |                        |
| Physical                                | Nominal Value   | Unit              | Test Method            |
| Specific Gravity                        | 1.10            | g/cm <sup>3</sup> | ASTM D792, ISO 1183    |
| Water Absorption (23°C, 24 hr)          | 1.3             | %                 | ASTM D570, ISO 62      |
| Mechanical                              | Nominal Value   | Unit              | Test Method            |
| Tensile Strength (Break)                | 70.0            | MPa               | ASTM D638, ISO 527-2   |
| Tensile Elongation (Break)              | 110             | %                 | ASTM D638, ISO 527-2   |
| Flexural Modulus                        | 1800            | MPa               | ASTM D790, ISO 178     |
| Flexural Stress                         |                 |                   |                        |
| --                                      | 80.0            | MPa               | ISO 178                |
| Break                                   | 80.0            | MPa               | ASTM D790              |
| Impact                                  | Nominal Value   | Unit              | Test Method            |
| Charpy Notched Impact Strength          | 13              | kJ/m <sup>2</sup> | ISO 179                |
| Charpy Unnotched Impact Strength        | No Break        |                   | ISO 179                |
| Notched Izod Impact Strength            | 15              | kJ/m <sup>2</sup> | ISO 180                |
| Thermal                                 | Nominal Value   | Unit              | Test Method            |
| Deflection Temperature Under Load       |                 |                   |                        |
| 0.45 MPa, Unannealed                    | 160             | °C                | ASTM D648, ISO 75-2/B  |
| 1.8 MPa, Unannealed                     | 60.0            | °C                | ASTM D648, ISO 75-2/A  |
| Peak Melting Temperature                | 218             | °C                | ASTM D2117, ISO 1218   |
| Electrical                              | Nominal Value   | Unit              | Test Method            |
| Volume Resistivity                      | 1.0E+15         | ohms · cm         | ASTM D257, IEC 60093   |
| Dielectric Strength                     | 23              | kV/mm             | ASTM D149, IEC 60243-1 |
| Comparative Tracking Index (Solution A) | 550             | V                 | IEC 60112              |
| Flammability                            | Nominal Value   | Unit              | Test Method            |
| Flame Rating                            | HB              |                   | UL 94                  |

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## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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