

# Vitaster® US30WT6190

Polybutylene Terephthalate

Jackdaw Polymers

Message:

Vitaster® US30WT6190 is a Polybutylene Terephthalate (PBT) product. It is available in Europe. Primary characteristic: flame rated.

| General Information               |               |                   |                        |
|-----------------------------------|---------------|-------------------|------------------------|
| Appearance                        | White         |                   |                        |
| Forms                             | Pellets       |                   |                        |
| 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)    | 0.25          | %                 | ASTM D570, ISO 62      |
| Mechanical                        | Nominal Value | Unit              | Test Method            |
| Tensile Strength (Yield)          | 56.0          | MPa               | ASTM D638, ISO 527-2   |
| Tensile Elongation (Break)        | > 10          | %                 | ASTM D638, ISO 527-2   |
| Flexural Modulus                  | 2400          | MPa               | ASTM D790, ISO 178     |
| Flexural Strength                 | 75.0          | MPa               | ASTM D790, ISO 178     |
| Impact                            | Nominal Value | Unit              | Test Method            |
| Charpy Notched Impact Strength    | 10            | kJ/m <sup>2</sup> | ISO 179                |
| Charpy Unnotched Impact Strength  | No Break      |                   | ISO 179                |
| Thermal                           | Nominal Value | Unit              | Test Method            |
| Deflection Temperature Under Load |               |                   |                        |
| 0.45 MPa, Unannealed              | 165           | °C                | ASTM D648, ISO 75-2/B  |
| 1.8 MPa, Unannealed               | 60.0          | °C                | ASTM D648, ISO 75-2/A  |
| Melting Temperature               | 225           | °C                | ISO 1218, ASTM D2117   |
| Electrical                        | Nominal Value | Unit              | Test Method            |
| Volume Resistivity                | 1.0E+16       | ohms·cm           | ASTM D257, IEC 60093   |
| Dielectric Strength               | 50            | kV/mm             | ASTM D149, IEC 60243-1 |
| Comparative Tracking Index        |               |                   |                        |
| Solution A                        | > 600         | V                 | IEC 60112              |
| -- 1                              | > 600         | V                 | ASTM D3638             |
| Flammability                      | Nominal Value | Unit              | Test Method            |
| Flame Rating                      | HB            |                   | UL 94                  |
| Oxygen Index                      | 22            | %                 | ASTM D2863, ISO 4589-2 |
| NOTE                              |               |                   |                        |

1. Solution A

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