

# DSM Engineering Plastics - Property Data

## Arnite® T06 204 SN

PBT-unfilled

Flame Retardant, High Flow

| Properties                                   | Typical Data    | Unit              | Test Method     |
|--|-----------------|-------------------|-----------------|
| <b>MECHANICAL PROPERTIES</b>                 |                 |                   |                 |
| Tensile modulus                              | <b>3200</b>     | MPa               | ISO 527-1/-2    |
| Yield stress                                 | <b>65</b>       | MPa               | ISO 527-1/-2    |
| Yield strain                                 | <b>5</b>        | %                 | ISO 527-1/-2    |
| Nominal strain at break                      | <b>5.5</b>      | %                 | ISO 527-1/-2    |
| Charpy impact strength (+23°C)               | <b>N</b>        | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy notched impact strength (+23°C)       | <b>5</b>        | kJ/m <sup>2</sup> | ISO 179/1eA     |
| <b>THERMAL PROPERTIES</b>                    |                 |                   |                 |
| Temp. of deflection under load (1.80 MPa)    | <b>75</b>       | °C                | ISO 75-1/-2     |
| Temp. of deflection under load (0.45 MPa)    | <b>165</b>      | °C                | ISO 75-1/-2     |
| Coeff. of linear therm. expansion (parallel) | <b>0.7</b>      | E-4/°C            | ISO 11359-1/-2  |
| Coeff. of linear therm. expansion (normal)   | <b>0.7</b>      | E-4/°C            | ISO 11359-1/-2  |
| Burning Behav. at 1.6 mm nom. thickn.        | <b>V-0</b>      | class             | IEC 60695-11-10 |
| Thickness tested                             | <b>3</b>        | mm                | IEC 60695-11-10 |
| Burning Behav. at thickness h                | <b>V-0</b>      | class             | IEC 60695-11-10 |
| Thickness tested                             | <b>0.75</b>     | mm                | IEC 60695-11-10 |
| <b>ELECTRICAL PROPERTIES</b>                 |                 |                   |                 |
| Volume resistivity                           | <b>&gt;1E13</b> | Ohm*m             | IEC 60093       |
| Surface resistivity                          | <b>&gt;1E15</b> | Ohm               | IEC 60093       |
| Comparative tracking index                   | <b>225</b>      | -                 | IEC 60112       |
| <b>OTHER PROPERTIES</b>                      |                 |                   |                 |
| Water absorption                             | <b>0.45</b>     | %                 | Sim. to ISO 62  |
| Humidity absorption                          | <b>0.18</b>     | %                 | Sim. to ISO 62  |
| Density                                      | <b>1440</b>     | kg/m <sup>3</sup> | ISO 1183        |

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