

# Arnite® TV4 491

## (PBT+PET)-GF50

50% Glass Reinforced

| Properties                                | Typical Data | Unit              | Test Method    |
|-------------------------------------------|--------------|-------------------|----------------|
| <b>Rheological properties</b>             |              |                   |                |
|                                           | Value        |                   |                |
| Molding shrinkage (normal)                | 0.9          | %                 | ISO 294-4      |
| Molding shrinkage (parallel)              | 0.3          | %                 | ISO 294-4      |
| <b>Mechanical properties</b>              |              |                   |                |
|                                           | Value        |                   |                |
| Tensile modulus                           | 16500        | MPa               | ISO 527-1/-2   |
| Stress at break                           | 155          | MPa               | ISO 527-1/-2   |
| Strain at break                           | 1.6          | %                 | ISO 527-1/-2   |
| Charpy impact strength (+23°C)            | 55           | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Charpy impact strength (-30°C)            | 60           | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Charpy notched impact strength (+23°C)    | 9.5          | kJ/m <sup>2</sup> | ISO 179/1eA    |
| <b>Thermal properties</b>                 |              |                   |                |
|                                           | Value        |                   |                |
| Melting temperature (10°C/min)            | 225          | °C                | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 205          | °C                | ISO 75-1/-2    |
| Temp. of deflection under load (0.45 MPa) | 225          | °C                | ISO 75-1/-2    |
| <b>Electrical properties</b>              |              |                   |                |
|                                           | Value        |                   |                |
| Volume resistivity                        | >1E13        | Ohm*m             | IEC 62631-3-1  |
| <b>Other properties</b>                   |              |                   |                |
|                                           | Value        |                   |                |
| Water absorption                          | 0.3          | %                 | Sim. to ISO 62 |
| Humidity absorption                       | 0.15         | %                 | Sim. to ISO 62 |
| Density                                   | 1720         | kg/m <sup>3</sup> | ISO 1183       |

