

# Arnite® TV8 260

## PBT-GF30

30% Glass Reinforced

| Properties                                   | Typical Data | Unit              | Test Method    |
|----------------------------------------------|--------------|-------------------|----------------|
| <b>Mechanical properties</b>                 |              |                   |                |
|                                              | Value        |                   |                |
| Tensile modulus                              | 9500         | MPa               | ISO 527-1/-2   |
| Stress at break                              | 135          | MPa               | ISO 527-1/-2   |
| Strain at break                              | 3.5          | %                 | ISO 527-1/-2   |
| Charpy impact strength (+23°C)               | 73           | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Charpy impact strength (-30°C)               | 65           | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Charpy notched impact strength (+23°C)       | 12           | kJ/m <sup>2</sup> | ISO 179/1eA    |
| Charpy notched impact strength (-30°C)       | 14           | 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)    | 220          | °C                | ISO 75-1/-2    |
| Coeff. of linear therm. expansion (parallel) | 0.35         | E-4/°C            | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal)   | 0.7          | E-4/°C            | ISO 11359-1/-2 |
| Oxygen index                                 | 20           | %                 | ISO 4589-1/-2  |
| <b>Electrical properties</b>                 |              |                   |                |
|                                              | Value        |                   |                |
| Volume resistivity                           | >1E13        | Ohm*m             | IEC 62631-3-1  |
| Comparative tracking index                   | 475          | V                 | IEC 60112      |
| <b>Other properties</b>                      |              |                   |                |
|                                              | Value        |                   |                |
| Water absorption                             | 0.3          | %                 | Sim. to ISO 62 |
| Humidity absorption                          | 0.15         | %                 | Sim. to ISO 62 |



Property Data

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| Properties | Typical Data | Unit              | Test Method |
|------------|--------------|-------------------|-------------|
| Density    | 1520         | kg/m <sup>3</sup> | ISO 1183    |

