

Arnite[®] TV4 270

PBT–GF35

35% Glass Reinforced, Food Contact Quality

| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|--|---------------------|-------------------|--------------------|
| RHEOLOGICAL PROPERTIES | | | |
| | <i>VALUE</i> | | |
| Molding shrinkage [normal] | 1.1 | % | Sim. to ISO 294–4 |
| Molding shrinkage [parallel] | 0.3 | % | Sim. to ISO 294–4 |
| MECHANICAL PROPERTIES | | | |
| | <i>VALUE</i> | | |
| Tensile modulus | 11500 | MPa | ISO 527–1/–2 |
| Stress at break | 155 | MPa | ISO 527–1/–2 |
| Strain at break | 2.5 | % | ISO 527–1/–2 |
| Charpy impact strength (+23°C) | 65 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (–30°C) | 65 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 9.7 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (–30°C) | 13 | kJ/m ² | ISO 179/1eA |
| THERMAL PROPERTIES | | | |
| | <i>VALUE</i> | | |
| Melting temperature (10°C/min) | 225 | °C | ISO 11357–1/–3 |
| Temp. of deflection under load (1.80 MPa) | 213 | °C | ISO 75–1/–2 |
| Temp. of deflection under load (0.45 MPa) | 224 | °C | ISO 75–1/–2 |
| Coeff. of linear therm. expansion (parallel) | 0.3 | E–4/°C | ISO 11359–1/–2 |
| Coeff. of linear therm. expansion (normal) | 0.7 | E–4/°C | ISO 11359–1/–2 |
| Burning Behav. at 1.5 mm nom. thickn. | HB | class | IEC 60695–11–10 |
| Thickness tested | 1.5 | mm | IEC 60695–11–10 |
| Burning Behav. at 3.0 mm nom. thickn. | HB | class | IEC 60695–11–10 |
| Thickness tested | 3 | mm | IEC 60695–11–10 |

Property Data

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| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|----------------------------------|--------------|-------------------|----------------|
| ELECTRICAL PROPERTIES | | | |
| | VALUE | | |
| Volume resistivity | >1E13 | Ohm*m | IEC 62631-3-1 |
| Electric strength | 30 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 475 | V | IEC 60112 |
| Comparative tracking index (PLC) | 1 | class | UL 746A |
| OTHER PROPERTIES | | | |
| | VALUE | | |
| Water absorption | 0.25 | % | Sim. to ISO 62 |
| Humidity absorption | 0.15 | % | Sim. to ISO 62 |
| Density | 1570 | kg/m ³ | ISO 1183 |

Viscosity–shear rate

