Property Data

Envalior
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# Arnite® AV2 390 XT

## PET–GF50

*50% Glass Reinforced, Applications with extremely narrow tolerances*

Print Date: 2024–04–23

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|---|---|---|
| **RHEOLOGICAL PROPERTIES** | **VALUE** | | |
| Molding shrinkage [normal] | 0.8 | % | Sim. to ISO 294–4 |
| Molding shrinkage [parallel] | 0.45 | % | Sim. to ISO 294–4 |
| **MECHANICAL PROPERTIES** | **VALUE** | | |
| Tensile modulus | 18500 | MPa | ISO 527–1/–2 |
| Stress at break | 205 | MPa | ISO 527–1/–2 |
| Strain at break | 1.7 | % | ISO 527–1/–2 |
| Charpy impact strength (+23°C) | 65 | kJ/m² | ISO 179/1eU |
| Charpy impact strength (–30°C) | 60 | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 8.5 | kJ/m² | ISO 179/1eA |
| Charpy notched impact strength (–30°C) | 8.5 | kJ/m² | ISO 179/1eA |
| **THERMAL PROPERTIES** | **VALUE** | | |
| Melting temperature (10°C/min) | 255 | °C | ISO 11357–1/–3 |
| Temp. of deflection under load (1.80 MPa) | 232 | °C | ISO 75–1/–2 |
| Temp. of deflection under load (0.45 MPa) | 250 | °C | ISO 75–1/–2 |
| Coeff. of linear therm. expansion (parallel) | 0.13 | E–4/°C | ISO 11359–1/–2 |
| Coeff. of linear therm. expansion (normal) | 0.48 | E–4/°C | ISO 11359–1/–2 |
| **ELECTRICAL PROPERTIES** | **VALUE** | | |
| Relative permittivity (100Hz) | 3.8 | – | IEC 62631–2–1 |
| Relative permittivity (1 MHz) | 3.5 | – | IEC 62631–2–1 |
| Dissipation factor (100 Hz) | 20 | E–4 | IEC 62631–2–1 |

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| *PROPERTIES* | *TYPICAL DATA* | *UNIT* | *TEST METHOD* |
|---|---|---|---|
| Dissipation factor (1 MHz) | 110 | E–4 | IEC 62631–2–1 |
| Volume resistivity | >1E13 | Ohm*m | IEC 62631–3–1 |

| *OTHER PROPERTIES* | *VALUE* | | |
|---|---|---|---|
| Water absorption | 0.3 | % | Sim. to ISO 62 |
| Humidity absorption | 0.12 | % | Sim. to ISO 62 |
| Density | 1800 | kg/m³ | ISO 1183 |

## Viscosity–shear rate