Property Data

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# Pocan® BF4239 S103

*Arnite® TV4 261 SF*

## PBT–GF30 FR(17)

*30% Glass Fiber Reinforced, Flame Retardant, High Flow*

Print Date: 2026–04–09

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|---|---|---|
| **RHEOLOGICAL PROPERTIES** | **VALUE** | | |
| Molding shrinkage [normal] | 1.45 | % | Sim. to ISO 294–4 |
| Molding shrinkage [parallel] | 0.5 | % | Sim. to ISO 294–4 |
| **MECHANICAL PROPERTIES** | **VALUE** | | |
| Tensile modulus | 11000 | MPa | ISO 527–1/–2 |
| Stress at break | 130 | MPa | ISO 527–1/–2 |
| Strain at break | 2.5 | % | ISO 527–1/–2 |
| Flexural modulus | 10500 | MPa | ISO 178 |
| Flexural strength | 200 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 50 | kJ/m² | ISO 179/1eU |
| Charpy impact strength (–30°C) | 40 | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 8 | kJ/m² | ISO 179/1eA |
| Charpy notched impact strength (–30°C) | 8 | kJ/m² | ISO 179/1eA |
| **THERMAL PROPERTIES** | **VALUE** | | |
| Melting temperature (10°C/min) | 225 | °C | ISO 11357–1/–3 |
| Temp. of deflection under load (1.80 MPa) | 210 | °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 |
| Thickness tested | 0.4 | mm | IEC 60695–11–10 |
| Burning Behav. at 0.75 mm nom. thickn. | V–0 | class | IEC 60695–11–10 |
| Thickness tested | 0.75 | mm | IEC 60695–11–10 |

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| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|---|---|---|
| Burning Behav. at 1.5 mm nom. thickn. | V–0 | class | IEC 60695–11–10 |
| Thickness tested | 1.5 | mm | IEC 60695–11–10 |
| Burning Behav. at 3.0 mm nom. thickn. | V–0 | class | IEC 60695–11–10 |
| Thickness tested | 3 | mm | IEC 60695–11–10 |
| Glow Wire Flammability Index GWFI | 960 | °C | IEC 60695–2–12 |
| GWFI (Thickness (1) tested) | 1.5 | mm | IEC 60695–2–12 |
| Glow Wire Flammability Index GWFI | 960 | °C | IEC 60695–2–12 |
| GWFI (Thickness (2) tested) | 0.75 | mm | IEC 60695–2–12 |
| Glow Wire Ignition Temperature GWIT | 700 | °C | IEC 60695–2–13 |
| GWIT (Thickness (1) tested) | 1.5 | mm | IEC 60695–2–13 |
| Glow Wire Ignition Temperature GWIT | 725 | °C | IEC 60695–2–13 |
| GWIT (Thickness (2) tested) | 0.75 | mm | IEC 60695–2–13 |

| ELECTRICAL PROPERTIES | VALUE | | |
|---|---|---|---|
| Relative permittivity (100Hz) | 4 | – | IEC 62631–2–1 |
| Relative permittivity (1 MHz) | 3.8 | – | IEC 62631–2–1 |
| Dissipation factor (100 Hz) | 25 | E–4 | IEC 62631–2–1 |
| Dissipation factor (1 MHz) | 140 | E–4 | IEC 62631–2–1 |
| Volume resistivity | >1E13 | Ohm*m | IEC 62631–3–1 |
| Electric strength | 28 | kV/mm | IEC 60243–1 |
| Comparative tracking index | 300 | V | IEC 60112 |
| Comparative tracking index (PLC) | 2 | class | UL 746A |

| OTHER PROPERTIES | VALUE | | |
|---|---|---|---|
| Water absorption | 0.3 | % | Sim. to ISO 62 |
| Humidity absorption | 0.15 | % | Sim. to ISO 62 |
| Density | 1650 | kg/m³ | ISO 1183 |

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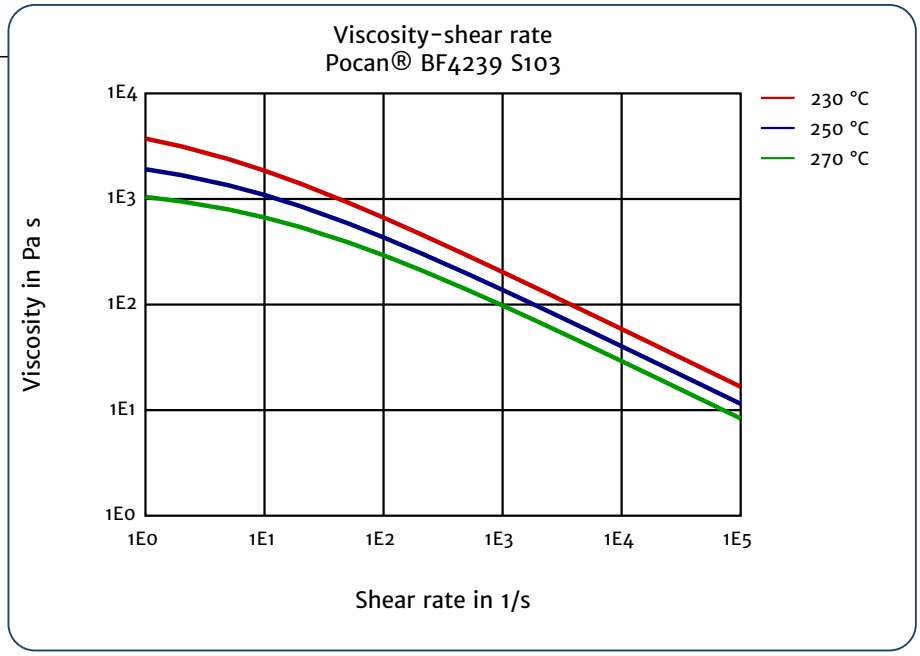
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## Viscosity-shear rate




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