

# Pocan<sup>®</sup> KL1–7265

## PBT–GF15

15% Glass Fiber Reinforced, Injection Molding, General purpose

Print Date: 2025–10–04

| PROPERTIES                                | TYPICAL DATA | UNIT                   | TEST METHOD    |
|---|--------------|------------------------|----------------|
| <b>RHEOLOGICAL PROPERTIES</b>             |              | VALUE                  |                |
| Melt volume–flow rate                     | 25           | cm <sup>3</sup> /10min | ISO 1133       |
| Temperature                               | 260          | °C                     | ISO 1133       |
| Load                                      | 2.16         | kg                     | ISO 1133       |
| Molding shrinkage (normal)                | 1.2          | %                      | ISO 294–4      |
| Molding shrinkage (parallel)              | 0.7          | %                      | ISO 294–4      |
| <b>MECHANICAL PROPERTIES</b>              |              | VALUE                  |                |
| Tensile modulus                           | 6000         | MPa                    | ISO 527–1/–2   |
| Stress at break                           | 105          | MPa                    | ISO 527–1/–2   |
| Strain at break                           | 3.5          | %                      | ISO 527–1/–2   |
| Flexural modulus                          | 5600         | MPa                    | ISO 178        |
| Flexural strength                         | 170          | MPa                    | ISO 178        |
| Flexural strain at flexural strength      | 4.2          | %                      | ISO 178–A      |
| Charpy impact strength (+23°C)            | 30           | kJ/m <sup>2</sup>      | ISO 179/1eU    |
| Charpy impact strength (–30°C)            | 30           | kJ/m <sup>2</sup>      | ISO 179/1eU    |
| Charpy notched impact strength (+23°C)    | 6.1          | kJ/m <sup>2</sup>      | ISO 179/1eA    |
| Charpy notched impact strength (–30°C)    | 6.1          | kJ/m <sup>2</sup>      | ISO 179/1eA    |
| Izod impact strength (+23°C)              | 25           | kJ/m <sup>2</sup>      | ISO 180/1U     |
| Izod impact strength (–30°C)              | 25           | kJ/m <sup>2</sup>      | ISO 180–1U     |
| <b>THERMAL PROPERTIES</b>                 |              | VALUE                  |                |
| Melting temperature (10°C/min)            | 225          | °C                     | ISO 11357–1/–3 |
| Temp. of deflection under load (1.80 MPa) | 195          | °C                     | ISO 75–1/–2    |

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| PROPERTIES                                   | TYPICAL DATA | UNIT   | TEST METHOD     |
|--|--------------|--------|-----------------|
| Temp. of deflection under load (0.45 MPa)    | 220          | °C     | ISO 75–1/–2     |
| Coeff. of linear therm. expansion (parallel) | 0.4          | E–4/°C | ISO 11359–1/–2  |
| Coeff. of linear therm. expansion (normal)   | 1.2          | 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 |
| Oxygen index                                 | 20           | %      | ISO 4589–1/–2   |
| Glow Wire Flammability Index GWFI            | 650          | °C     | IEC 60695–2–12  |
| GWFI (Thickness (1) tested)                  | 2            | mm     | IEC 60695–2–12  |

| ELECTRICAL PROPERTIES            | VALUE |       |               |
|----------------------------------|-------|-------|---------------|
| Relative permittivity (100Hz)    | 3.6   | –     | IEC 62631–2–1 |
| Relative permittivity (1 MHz)    | 3.5   | –     | IEC 62631–2–1 |
| Dissipation factor (100 Hz)      | 30    | E–4   | IEC 62631–2–1 |
| Dissipation factor (1 MHz)       | 200   | E–4   | IEC 62631–2–1 |
| Volume resistivity               | >1E13 | Ohm*m | IEC 62631–3–1 |
| Surface resistivity              | >1E15 | Ohm   | IEC 62631–3–2 |
| Electric strength                | 25    | kV/mm | IEC 60243–1   |
| Comparative tracking index       | 300   | V     | IEC 60112     |
| Comparative tracking index (PLC) | 1     | class | UL 746A       |

| OTHER PROPERTIES    | VALUE |       |                |
|---------------------|-------|-------|----------------|
| Water absorption    | 0.4   | %     | Sim. to ISO 62 |
| Humidity absorption | 0.2   | %     | Sim. to ISO 62 |
| Density             | 1410  | kg/m³ | ISO 1183       |

| PROCESSING RECOMMENDATIONS               | VALUE |    |  |
|--|-------|----|--|
| Drying temperature circulating air dryer | 120   | °C |  |

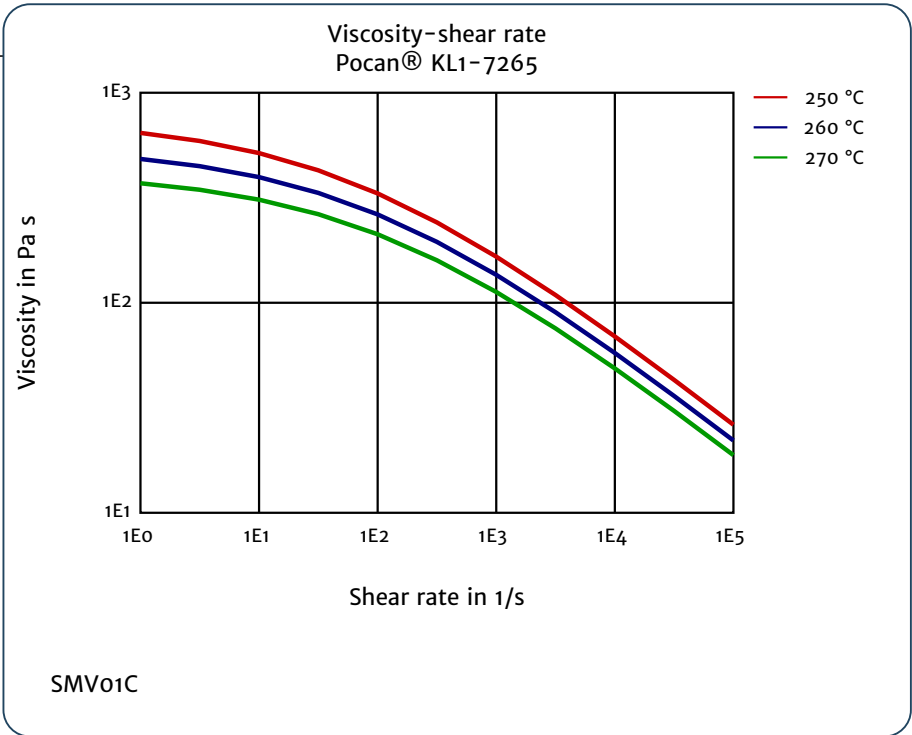
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|-----------------------------------|--------------|------|----------------------|
| Drying time circulating air dryer | 4–8          | h    |                      |
| Residual moisture content         | 0.00–0.02    | %    | acc. to Karl Fischer |
| Melt temperature (Tmin – Tmax)    | 250–270      | °C   |                      |
| Mold temperature                  | 80–100       | °C   |                      |

Viscosity–shear rate



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