

Pocan<sup>®</sup> S7926

PBT–I FR(17)

Injection Molding, Unreinforced, Extrusion, Flame Retardant, Improved Impact

Print Date: 2024–12–10

| PROPERTIES                                | TYPICAL DATA | UNIT      | TEST METHOD    |
|---|--------------|-----------|----------------|
| RHEOLOGICAL PROPERTIES                    |              | VALUE     |                |
| Melt volume–flow rate                     | 40           | cm³/10min | ISO 1133       |
| Temperature                               | 270          | °C        | ISO 1133       |
| Load                                      | 5            | kg        | ISO 1133       |
| Molding shrinkage (normal)                | 2            | %         | ISO 294–4      |
| Molding shrinkage (parallel)              | 2.1          | %         | ISO 294–4      |
| MECHANICAL PROPERTIES                     |              | VALUE     |                |
| Tensile modulus                           | 2400         | MPa       | ISO 527–1/–2   |
| Yield stress                              | 40           | MPa       | ISO 527–1/–2   |
| Yield strain                              | 3            | %         | ISO 527–1/–2   |
| Flexural modulus                          | 2300         | MPa       | ISO 178        |
| Flexural strength                         | 70           | MPa       | ISO 178        |
| Flexural strain at flexural strength      | 5            | %         | ISO 178–A      |
| Charpy impact strength (+23°C)            | N            | kJ/m²     | ISO 179/1eU    |
| Charpy impact strength (–30°C)            | N            | kJ/m²     | ISO 179/1eU    |
| Charpy notched impact strength (+23°C)    | 9            | kJ/m²     | ISO 179/1eA    |
| Charpy notched impact strength (–30°C)    | 6            | kJ/m²     | ISO 179/1eA    |
| Izod impact strength (+23°C)              | N            | kJ/m²     | ISO 180/1U     |
| Izod impact strength (–30°C)              | 110          | kJ/m²     | ISO 180–1U     |
| THERMAL PROPERTIES                        |              | VALUE     |                |
| Melting temperature (10°C/min)            | 225          | °C        | ISO 11357–1/–3 |
| Temp. of deflection under load (1.80 MPa) | 60           | °C        | ISO 75–1/–2    |

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|--|--------------|--------|-----------------|
| Temp. of deflection under load (0.45 MPa)    | 130          | °C     | ISO 75-1/-2     |
| Coeff. of linear therm. expansion (parallel) | 1.1          | 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 0.75 mm nom. thickn.       | V-2          | class  | IEC 60695-11-10 |
| Thickness tested                             | 0.75         | mm     | IEC 60695-11-10 |
| 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 |
| Oxygen index                                 | 30           | %      | ISO 4589-1/-2   |
| Glow Wire Flammability Index GWFI            | 960          | °C     | IEC 60695-2-12  |
| GWFI (Thickness (1) tested)                  | 0.75         | mm     | IEC 60695-2-12  |
| Glow Wire Ignition Temperature GWIT          | 775          | °C     | IEC 60695-2-13  |
| GWIT (Thickness (1) tested)                  | 0.75         | mm     | IEC 60695-2-13  |
| Glow Wire Ignition Temperature GWIT          | 725          | °C     | IEC 60695-2-13  |
| GWIT (Thickness (2) tested)                  | 1.5          | mm     | IEC 60695-2-13  |
| Glow Wire Ignition Temperature GWIT          | 700          | °C     | IEC 60695-2-13  |
| GWIT (Thickness (3) tested)                  | 3            | mm     | IEC 60695-2-13  |

| ELECTRICAL PROPERTIES            | VALUE |       |               |
|----------------------------------|-------|-------|---------------|
| Relative permittivity (100Hz)    | 3.2   | —     | IEC 62631-2-1 |
| Relative permittivity (1 MHz)    | 3.1   | —     | IEC 62631-2-1 |
| Dissipation factor (100 Hz)      | 15    | E-4   | IEC 62631-2-1 |
| Dissipation factor (1 MHz)       | 150   | 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                | 30    | kV/mm | IEC 60243-1   |
| Comparative tracking index       | 600   | V     | IEC 60112     |
| Comparative tracking index (PLC) | 0     | class | UL 746A       |

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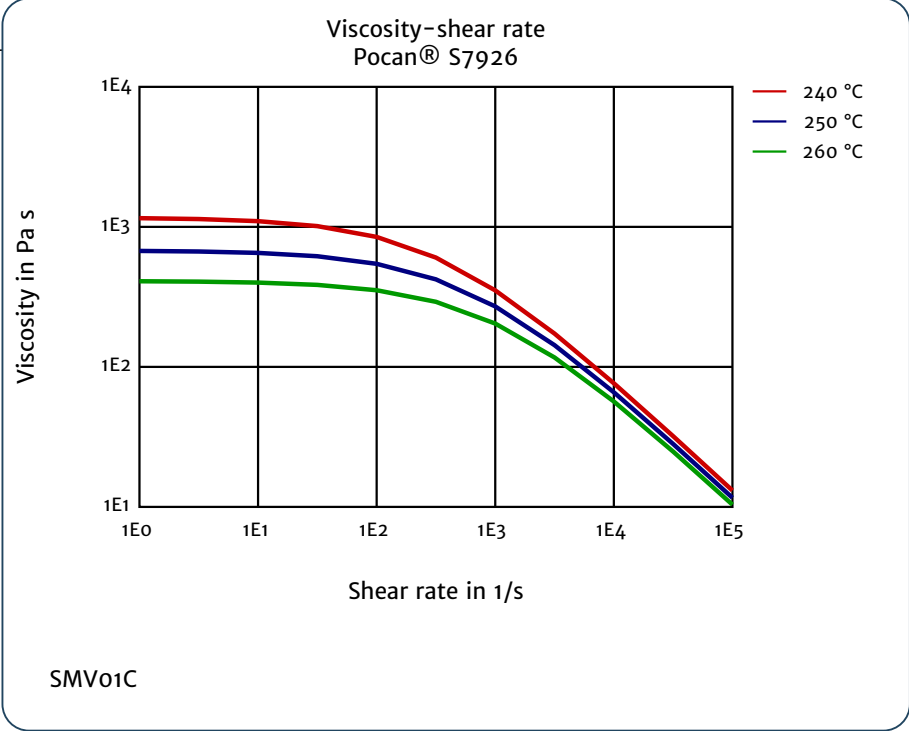
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|--|--------------|-------|----------------------|
| OTHER PROPERTIES                         | VALUE        |       |                      |
| Water absorption                         | 0.4          | %     | Sim. to ISO 62       |
| Humidity absorption                      | 0.2          | %     | Sim. to ISO 62       |
| Density                                  | 1370         | kg/m³ | ISO 1183             |
| PROCESSING RECOMMENDATIONS               | VALUE        |       |                      |
| Drying temperature circulating air dryer | 120          | °C    |                      |
| Drying time circulating air dryer        | 4-8          | h     |                      |
| Residual moisture content                | 0.00-0.02    | %     | acc. to Karl Fischer |
| Melt temperature (Tmin – Tmax)           | 240-260      | °C    |                      |
| Mold temperature                         | 80-100       | °C    |                      |

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Viscosity—shear rate



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