

# Pocan<sup>®</sup> B7375

## PBT-MX25

Injection Molding, 25% White Pigments, Low Warpage

Print Date: 2024-12-10

| PROPERTIES                                | TYPICAL DATA | UNIT                   | TEST METHOD    |
|---|--------------|------------------------|----------------|
| <b>RHEOLOGICAL PROPERTIES</b>             |              |                        |                |
|   | <b>VALUE</b> |                        |                |
| Melt volume-flow rate                     | 37           | cm <sup>3</sup> /10min | ISO 1133       |
| Temperature                               | 250          | °C                     | ISO 1133       |
| Load                                      | 2.16         | kg                     | ISO 1133       |
| Molding shrinkage (normal)                | 1.7          | %                      | ISO 294-4      |
| Molding shrinkage (parallel)              | 1.8          | %                      | ISO 294-4      |
| <b>MECHANICAL PROPERTIES</b>              |              |                        |                |
|   | <b>VALUE</b> |                        |                |
| Tensile modulus                           | 3500         | MPa                    | ISO 527-1/-2   |
| Stress at break                           | 55           | MPa                    | ISO 527-1/-2   |
| Strain at break                           | 3            | %                      | ISO 527-1/-2   |
| Flexural modulus                          | 3400         | MPa                    | ISO 178        |
| Flexural strength                         | 95           | MPa                    | ISO 178        |
| Flexural strain at flexural strength      | 5            | %                      | ISO 178-A      |
| Charpy impact strength (+23°C)            | 65           | kJ/m <sup>2</sup>      | ISO 179/1eU    |
| Charpy impact strength (-30°C)            | 50           | kJ/m <sup>2</sup>      | ISO 179/1eU    |
| Charpy notched impact strength (+23°C)    | 3            | kJ/m <sup>2</sup>      | ISO 179/1eA    |
| Charpy notched impact strength (-30°C)    | 2            | kJ/m <sup>2</sup>      | ISO 179/1eA    |
| Izod impact strength (+23°C)              | 60           | kJ/m <sup>2</sup>      | ISO 180/1U     |
| Izod impact strength (-30°C)              | 45           | kJ/m <sup>2</sup>      | ISO 180-1U     |
| <b>THERMAL PROPERTIES</b>                 |              |                        |                |
|   | <b>VALUE</b> |                        |                |
| Melting temperature (10°C/min)            | 225          | °C                     | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 75           | °C                     | ISO 75-1/-2    |

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## Property Data

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| <i>PROPERTIES</i>                            | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|--|---------------------|-------------|--------------------|
| Temp. of deflection under load (0.45 MPa)    | 165                 | °C          | ISO 75-1/-2        |
| Coeff. of linear therm. expansion (parallel) | 1                   | E-4/°C      | ISO 11359-1/-2     |
| Coeff. of linear therm. expansion (normal)   | 1                   | 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) | 4.5   | –     | IEC 62631-2-1 |
| Relative permittivity (1 MHz) | 4.2   | –     | IEC 62631-2-1 |
| Dissipation factor (100 Hz)   | 30    | E-4   | IEC 62631-2-1 |
| Dissipation factor (1 MHz)    | 170   | E-4   | IEC 62631-2-1 |
| Volume resistivity            | >1E13 | Ohm*m | IEC 62631-3-1 |
| Electric strength             | 26    | kV/mm | IEC 60243-1   |
| Comparative tracking index    | 450   | V     | IEC 60112     |

### *OTHER PROPERTIES*

#### *VALUE*

|                     |      |                   |                |
|---------------------|------|-------------------|----------------|
| Water absorption    | 0.4  | %                 | Sim. to ISO 62 |
| Humidity absorption | 0.2  | %                 | Sim. to ISO 62 |
| Density             | 1570 | kg/m <sup>3</sup> | 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 |

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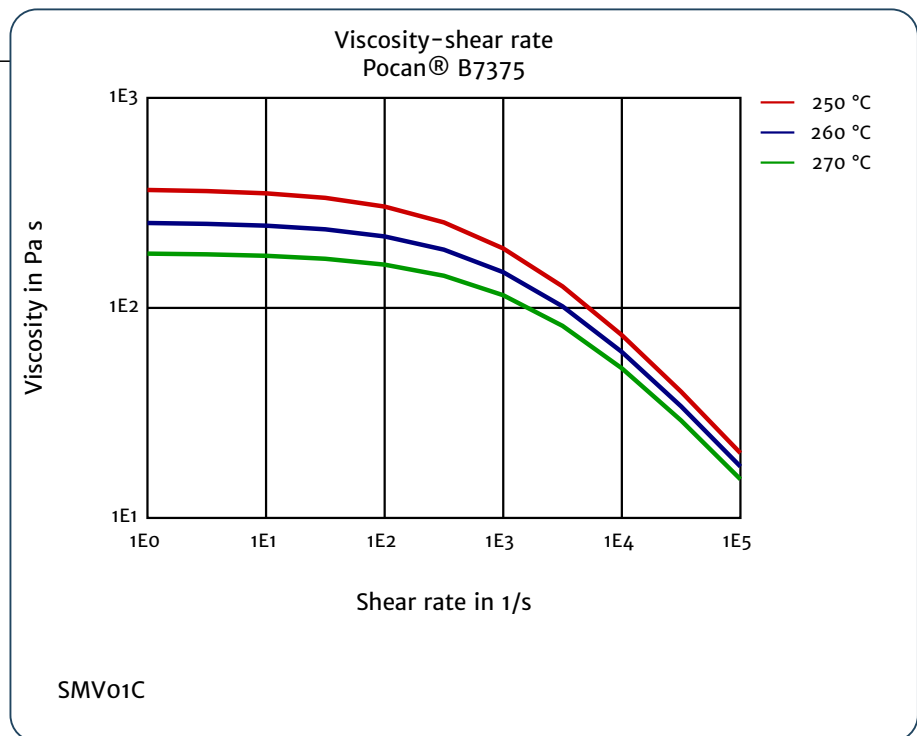
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| PROPERTIES                     | TYPICAL DATA | UNIT | TEST METHOD |
|--------------------------------|--------------|------|-------------|
| Melt temperature (Tmin – Tmax) | 250–270      | °C   |             |
| Mold temperature               | 80–100       | °C   |             |

## Viscosity–shear rate



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