

# Pocan<sup>®</sup> T7141

## (PET+PBT)–(GF+MX)40

40% Glass/Mineral Reinforced, Injection Molding, Improved flow

| PROPERTIES                                   | TYPICAL DATA | UNIT                   | TEST METHOD     |
|----------------------------------------------|--------------|------------------------|-----------------|
| <b>RHEOLOGICAL PROPERTIES</b>                |              | VALUE                  |                 |
| Melt volume–flow rate                        | 25           | cm <sup>3</sup> /10min | ISO 1133        |
| Temperature                                  | 280          | °C                     | ISO 1133        |
| Load                                         | 2.16         | kg                     | ISO 1133        |
| Molding shrinkage (normal)                   | 0.7          | %                      | ISO 294–4       |
| Molding shrinkage (parallel)                 | 0.2          | %                      | ISO 294–4       |
| <b>MECHANICAL PROPERTIES</b>                 |              | VALUE                  |                 |
| Tensile modulus                              | 12000        | MPa                    | ISO 527–1/–2    |
| Stress at break                              | 125          | MPa                    | ISO 527–1/–2    |
| Strain at break                              | 1.6          | %                      | ISO 527–1/–2    |
| Flexural modulus                             | 11000        | MPa                    | ISO 178         |
| Flexural strength                            | 175          | MPa                    | ISO 178         |
| Flexural strain at flexural strength         | 2            | %                      | ISO 178–A       |
| Izod impact strength (+23°C)                 | 35           | kJ/m <sup>2</sup>      | ISO 180/1U      |
| <b>THERMAL PROPERTIES</b>                    |              | VALUE                  |                 |
| Melting temperature (10°C/min)               | 260          | °C                     | ISO 11357–1/–3  |
| Temp. of deflection under load (1.80 MPa)    | 205          | °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) | 0.2          | E–4/°C                 | ISO 11359–1/–2  |
| Coeff. of linear therm. expansion (normal)   | 0.5          | E–4/°C                 | ISO 11359–1/–2  |
| Burning Behav. at 0.75 mm nom. thickn.       | HB           | class                  | IEC 60695–11–10 |
| Thickness tested                             | 0.75         | mm                     | IEC 60695–11–10 |



Property Data

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| PROPERTIES                               | TYPICAL DATA | UNIT  | TEST METHOD          |
|------------------------------------------|--------------|-------|----------------------|
| 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      |
| Glow Wire Flammability Index GWFI        | 750          | °C    | IEC 60695-2-12       |
| GWFI (Thickness (1) tested)              | 0.8          | mm    | IEC 60695-2-12       |
| Glow Wire Flammability Index GWFI        | 750          | °C    | IEC 60695-2-12       |
| GWFI (Thickness (2) tested)              | 1.5          | mm    | IEC 60695-2-12       |
| Glow Wire Ignition Temperature GWIT      | 775          | °C    | IEC 60695-2-13       |
| GWIT (Thickness (1) tested)              | 0.8          | mm    | IEC 60695-2-13       |
| Glow Wire Ignition Temperature GWIT      | 775          | °C    | IEC 60695-2-13       |
| GWIT (Thickness (2) tested)              | 1.5          | mm    | IEC 60695-2-13       |
| Glow Wire Ignition Temperature GWIT      | 775          | °C    | IEC 60695-2-13       |
| GWIT (Thickness (3) tested)              | 3            | mm    | IEC 60695-2-13       |
| ELECTRICAL PROPERTIES                    |              | VALUE |                      |
| Comparative tracking index               | 225          | V     | IEC 60112            |
| OTHER PROPERTIES                         |              | VALUE |                      |
| Density                                  | 1700         | 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)           | 260-280      | °C    |                      |
| Mold temperature                         | 80-100       | °C    |                      |

