

# Pocan<sup>®</sup> C1203

**(PBT+PC)—I**

Injection Molding, Unreinforced, Improved Impact, Excellent Surface Properties, Low Warpage

| 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                                         | 5            | kg                     | ISO 1133       |
| Molding shrinkage (normal)                   | 0.8          | %                      | ISO 294–4      |
| Molding shrinkage (parallel)                 | 0.8          | %                      | ISO 294–4      |
| <b>MECHANICAL PROPERTIES</b>                 |              | VALUE                  |                |
| Tensile modulus                              | 2500         | MPa                    | ISO 527–1/–2   |
| Yield stress                                 | 55           | MPa                    | ISO 527–1/–2   |
| Yield strain                                 | 4.2          | %                      | ISO 527–1/–2   |
| Flexural modulus                             | 2200         | MPa                    | ISO 178        |
| Flexural strength                            | 80           | MPa                    | ISO 178        |
| Flexural strain at flexural strength         | 5.5          | %                      | ISO 178–A      |
| Charpy impact strength (+23°C)               | N            | kJ/m <sup>2</sup>      | ISO 179/1eU    |
| Charpy notched impact strength (+23°C)       | 60           | kJ/m <sup>2</sup>      | ISO 179/1eA    |
| Charpy notched impact strength (–30°C)       | 23           | kJ/m <sup>2</sup>      | ISO 179/1eA    |
| Izod impact strength (+23°C)                 | N            | 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)    | 89           | °C                     | ISO 75–1/–2    |
| Temp. of deflection under load (0.45 MPa)    | 108          | °C                     | ISO 75–1/–2    |
| Coeff. of linear therm. expansion (parallel) | 0.89         | E–4/°C                 | ISO 11359–1/–2 |



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| PROPERTIES                                 | TYPICAL DATA | UNIT   | TEST METHOD          |
|--------------------------------------------|--------------|--------|----------------------|
| Coeff. of linear therm. expansion (normal) | 0.93         | E-4/°C | ISO 11359-1/-2       |
|                                            |              |        |                      |
| ELECTRICAL PROPERTIES                      | VALUE        |        |                      |
| Volume resistivity                         | >1E13        | Ohm*m  | IEC 62631-3-1        |
| Electric strength                          | 32           | kV/mm  | IEC 60243-1          |
| Comparative tracking index                 | 600          | V      | IEC 60112            |
|                                            |              |        |                      |
| OTHER PROPERTIES                           | VALUE        |        |                      |
| Density                                    | 1200         | 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)             | 250-270      | °C     |                      |
| Mold temperature                           | 80-100       | °C     |                      |

