

# Pocan<sup>®</sup> C1202LT

**(PBT+PC)—I**

Injection Molding, Unreinforced, Improved Impact, Laser Transparent Black, Low Warpage

| PROPERTIES                             | TYPICAL DATA | UNIT                   | TEST METHOD    |
|----------------------------------------|--------------|------------------------|----------------|
| <b>RHEOLOGICAL PROPERTIES</b>          |              |                        |                |
|                                        | VALUE        |                        |                |
| Melt volume–flow rate                  | 45           | cm <sup>3</sup> /10min | ISO 1133       |
| Temperature                            | 270          | °C                     | ISO 1133       |
| Load                                   | 5            | kg                     | ISO 1133       |
| Molding shrinkage (normal)             | 1            | %                      | ISO 294–4      |
| Molding shrinkage (parallel)           | 1            | %                      | ISO 294–4      |
| <b>MECHANICAL PROPERTIES</b>           |              |                        |                |
|                                        | VALUE        |                        |                |
| Tensile modulus                        | 2100         | MPa                    | ISO 527–1/–2   |
| Yield stress                           | 50           | MPa                    | ISO 527–1/–2   |
| Yield strain                           | 4            | %                      | ISO 527–1/–2   |
| Nominal strain at break                | 24           | %                      | ISO 527–1/–2   |
| Flexural modulus                       | 2100         | MPa                    | ISO 178        |
| Flexural strength                      | 75           | 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 impact strength (–30°C)         | N            | kJ/m <sup>2</sup>      | ISO 179/1eU    |
| Charpy notched impact strength (+23°C) | 55           | kJ/m <sup>2</sup>      | ISO 179/1eA    |
| Charpy notched impact strength (–30°C) | 18           | kJ/m <sup>2</sup>      | ISO 179/1eA    |
| Izod impact strength (+23°C)           | N            | kJ/m <sup>2</sup>      | ISO 180/1U     |
| Izod impact strength (–30°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 |

Property Data

Pocan<sup>®</sup> C1202LT

| PROPERTIES                                   | TYPICAL DATA | UNIT   | TEST METHOD          |
|----------------------------------------------|--------------|--------|----------------------|
| Temp. of deflection under load (1.80 MPa)    | 75           | °C     | ISO 75-1/-2          |
| Temp. of deflection under load (0.45 MPa)    | 100          | °C     | ISO 75-1/-2          |
| Coeff. of linear therm. expansion (parallel) | 0.9          | E-4/°C | ISO 11359-1/-2       |
| Coeff. of linear therm. expansion (normal)   | 0.9          | E-4/°C | ISO 11359-1/-2       |
| ELECTRICAL PROPERTIES                        |              | VALUE  |                      |
| Comparative tracking index                   | 600          | V      | IEC 60112            |
| OTHER PROPERTIES                             |              | VALUE  |                      |
| Density                                      | 1210         | 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                             | 70-100       | °C     |                      |