

# Pocan<sup>®</sup> B1205XHR

## PBT-I

Injection Molding, Unreinforced, Hydrolysis resistant

Print Date: 2024-09-17

| PROPERTIES                                | TYPICAL DATA | UNIT                   | TEST METHOD    |
|---|--------------|------------------------|----------------|
| <b>RHEOLOGICAL PROPERTIES</b>             |              |                        |                |
|   | <b>VALUE</b> |                        |                |
| Melt volume-flow rate                     | 60           | cm <sup>3</sup> /10min | ISO 1133       |
| Temperature                               | 260          | °C                     | ISO 1133       |
| Load                                      | 2.16         | kg                     | ISO 1133       |
| Molding shrinkage (normal)                | 2.2          | %                      | ISO 294-4      |
| Molding shrinkage (parallel)              | 2.2          | %                      | ISO 294-4      |
| <b>MECHANICAL PROPERTIES</b>              |              |                        |                |
|   | <b>VALUE</b> |                        |                |
| Tensile modulus                           | 2100         | MPa                    | ISO 527-1/-2   |
| Yield stress                              | 50           | MPa                    | ISO 527-1/-2   |
| Yield strain                              | 5            | %                      | ISO 527-1/-2   |
| Nominal strain at break                   | 15           | %                      | ISO 527-1/-2   |
| Flexural modulus                          | 2200         | MPa                    | ISO 178        |
| Flexural strength                         | 75           | MPa                    | ISO 178        |
| Flexural strain at flexural strength      | 6.7          | %                      | ISO 178-A      |
| Charpy impact strength (+23°C)            | 140          | kJ/m <sup>2</sup>      | ISO 179/1eU    |
| Charpy impact strength (-30°C)            | 80           | kJ/m <sup>2</sup>      | ISO 179/1eU    |
| Charpy notched impact strength (+23°C)    | <10          | kJ/m <sup>2</sup>      | ISO 179/1eA    |
| Charpy notched impact strength (-30°C)    | <10          | kJ/m <sup>2</sup>      | ISO 179/1eA    |
| Izod impact strength (+23°C)              | 100          | 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) | 60           | °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)    | 140                 | °C                | ISO 75-1/-2          |
| Coeff. of linear therm. expansion (parallel) | 1.3                 | E-4/°C            | ISO 11359-1/-2       |
| Coeff. of linear therm. expansion (normal)   | 1.3                 | 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      |
| 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      |
| <b><i>ELECTRICAL PROPERTIES</i></b>          | <b><i>VALUE</i></b> |                   |                      |
| Comparative tracking index                   | 600                 | V                 | IEC 60112            |
| Comparative tracking index (PLC)             | 0                   | class             | UL 746A              |
| <b><i>OTHER PROPERTIES</i></b>               | <b><i>VALUE</i></b> |                   |                      |
| Density                                      | 1290                | kg/m <sup>3</sup> | ISO 1183             |
| <b><i>PROCESSING RECOMMENDATIONS</i></b>     | <b><i>VALUE</i></b> |                   |                      |
| 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                |                      |

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