

## Data sheet

### Pocan B3233HRLT 904040

PBT, 30 % glass fibers, injection molding, improved laser-transparency, improved weldability, hydrolysis stabilized, NIR-laser transparent coloring (black)

**ISO Shortname:** ISO 20028-PBT,GF30,GHMRW,09-100

| Property                                                     | Test Condition       | Unit              | Standard             | guide value |
|--------------------------------------------------------------|----------------------|-------------------|----------------------|-------------|
| <b>Rheological properties</b>                                |                      |                   |                      |             |
| <b>C</b> Molding shrinkage, parallel                         | 60x60x2              | %                 | ISO 294-4            | 0.3         |
| <b>C</b> Molding shrinkage, transverse                       | 60x60x2              | %                 | ISO 294-4            | 0.8         |
| Post- shrinkage, parallel                                    | 60x60x2; 120 °C; 4 h | %                 | ISO 294-4            | 0.05        |
| Post- shrinkage, transverse                                  | 60x60x2; 120 °C; 4 h | %                 | ISO 294-4            | 0.2         |
| <b>Mechanical properties (23 °C/50 % r. h.)</b>              |                      |                   |                      |             |
| <b>C</b> Tensile modulus                                     | 1 mm/min             | MPa               | ISO 527-1,-2         | 10000       |
| <b>C</b> Tensile Stress at break                             | 5 mm/min             | MPa               | ISO 527-1,-2         | 140         |
| <b>C</b> Tensile Strain at break                             | 5 mm/min             | %                 | ISO 527-1,-2         | 2.8         |
| <b>C</b> Charpy impact strength                              | 23 °C                | kJ/m <sup>2</sup> | ISO 179-1eU          | 60          |
| Izod impact strength                                         | 23 °C                | kJ/m <sup>2</sup> | ISO 180-1U           | 53          |
| Flexural modulus                                             | 2 mm/min             | MPa               | ISO 178-A            | 9600        |
| Flexural strength                                            | 2 mm/min             | MPa               | ISO 178-A            | 230         |
| Flexural strain at flexural strength                         | 2 mm/min             | %                 | ISO 178-A            | 3.2         |
| <b>Thermal properties</b>                                    |                      |                   |                      |             |
| <b>C</b> Melting temperature                                 | 10 °C/min            | °C                | ISO 11357-1,-3       | 225         |
| <b>C</b> Temperature of deflection under load                | 1.80 MPa             | °C                | ISO 75-1,-2          | 190         |
| <b>C</b> Temperature of deflection under load                | 0.45 MPa             | °C                | ISO 75-1,-2          | 215         |
| <b>C</b> Coefficient of linear thermal expansion, parallel   | 23 to 55 °C          | 10-4/K            | ISO 11359-1,-2       | 1.0         |
| <b>C</b> Coefficient of linear thermal expansion, transverse | 23 to 55 °C          | 10-4/K            | ISO 11359-1,-2       | 0.2         |
| <b>C</b> Vicat softening temperature                         | 50 N; 50 °C/h        | °C                | ISO 306              | 200         |
| <b>Electrical properties (23 °C/50 % r. h.)</b>              |                      |                   |                      |             |
| <b>C</b> Comparative tracking index CTI                      | Solution A           | Rating            | IEC 60112            | 300         |
| <b>Other properties (23 °C)</b>                              |                      |                   |                      |             |
| <b>C</b> Density                                             |                      | kg/m <sup>3</sup> | ISO 1183             | 1520        |
| Bulk density                                                 |                      | kg/m <sup>3</sup> | ISO 60               | 0.7         |
| <b>Processing conditions for test specimens</b>              |                      |                   |                      |             |
| <b>C</b> Injection molding-Melt temperature                  |                      | °C                | ISO 294              | 260         |
| <b>C</b> Injection molding-Mold temperature                  |                      | °C                | ISO 294              | 80          |
| <b>Processing recommendations</b>                            |                      |                   |                      |             |
| Drying temperature circulating air dryer                     |                      | °C                | -                    | 120         |
| Drying time circulating air dryer                            |                      | h                 | -                    | 4           |
| Residual moisture content                                    |                      | %                 | Acc. to Karl Fischer | 0.00 - 0.02 |
| Melt temperature (Tmin - Tmax)                               |                      | °C                | -                    | 250-270     |
| Mold temperature                                             |                      | °C                | -                    | 80-100      |

**C** These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.

## Disclaimer

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### Typical Properties

Property data is provided as general information only. Property values are approximate and are not part of the product specifications.

### Flammability

Flammability results are based on small-scale laboratory tests for purposes of relative comparison and are not intended to reflect the hazards presented by this or any other material under actual fire conditions.

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**Color and Visual Effects**

Type and quantity of pigments or additives used to obtain certain colors and special visual effects can affect mechanical properties.

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