

## Data sheet

### Pocan B500 000000

PBT, non-reinforced, injection molding, extrusion, base resin, improved flowability, suitable for food-contact

ISO Shortname: ISO 20028-PBT,,G,05-030

| Property                                        | Test Condition                        | Unit                      | Standard       | guide value |
|-------------------------------------------------|---------------------------------------|---------------------------|----------------|-------------|
| <b>Rheological properties</b>                   |                                       |                           |                |             |
| <b>C</b> Melt volume-flow rate                  | 250 °C; 2.16 kg                       | cm <sup>3</sup> /(10 min) | ISO 1133-1     | 280         |
| <b>C</b> Molding shrinkage, parallel            | 60x60x2; 250 °C / WZ 80° C; 600 bar % |                           | ISO 294-4      | 1.8         |
| <b>C</b> Molding shrinkage, transverse          | 60x60x2; 250 °C / WZ 80° C; 600 bar % |                           | ISO 294-4      | 1.8         |
| Post- shrinkage, parallel                       | 60x60x2; 120 °C; 4 h                  | %                         | ISO 294-4      | 0.2         |
| 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   | 2700        |
| <b>C</b> Nominal strain at break                | 50 mm/min                             | %                         | ISO 527-1,-2   | 2.8         |
| <b>C</b> Tensile Stress at break                | 5 mm/min                              | MPa                       | ISO 527-1,-2   | 55          |
| <b>C</b> Tensile Strain at break                | 5 mm/min                              | %                         | ISO 527-1,-2   | 2.5         |
| Izod impact strength                            | 23 °C                                 | kJ/m <sup>2</sup>         | ISO 180-1U     | 35          |
| Flexural modulus                                | 2 mm/min                              | MPa                       | ISO 178-A      | 2700        |
| Flexural strength                               | 2 mm/min                              | MPa                       | ISO 178-A      | 95          |
| Flexural strain at flexural strength            | 2 mm/min                              | %                         | ISO 178-A      | 5.5         |
| Flexural stress at 3.5 % strain                 | 2 mm/min                              | MPa                       | ISO 178-A      | 85          |
| <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    | 85          |
| <b>C</b> Vicat softening temperature            | 50 N; 50 °C/h                         | °C                        | ISO 306        | 185         |
| <b>Other properties (23 °C)</b>                 |                                       |                           |                |             |
| <b>C</b> Density                                |                                       | kg/m <sup>3</sup>         | ISO 1183       | 1300        |
| Bulk density                                    |                                       | kg/m <sup>3</sup>         | ISO 60         | 800         |
| <b>Processing conditions for test specimens</b> |                                       |                           |                |             |
| <b>C</b> Injection molding-Melt temperature     |                                       | °C                        | ISO 294        | 250         |
| <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                         | -              | 4-8         |

**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

### Standard 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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