

# Datasheet

## Pocan T7245 000000

PET, 45% glass fibers/mineral, injection molding, improved light reflection

ISO Shortname: ISO 20028-PET,(GF+MD)45,GHMR,07-120

| Property  | Test Condition                       | Unit                      | Standard             | guide value <sup>1</sup> |
|---|--------------------------------------|---------------------------|----------------------|--------------------------|
| <b>Rheological properties</b>                   |                                      |                           |                      |                          |
| C Melt volume-flow rate                         | 270 °C; 5 kg                         | cm <sup>3</sup> /(10 min) | ISO 1133-1           | 35                       |
| C Molding shrinkage, parallel                   | 60x60x2; 270 °C / WZ 120 °C; 600 bar | %                         | ISO 294-4            | 0.4                      |
| C Molding shrinkage, transverse                 | 60x60x2; 270 °C / WZ 120 °C; 600 bar | %                         | ISO 294-4            | 1.0                      |
| Post- shrinkage, parallel                       | 60x60x2; 120 °C; 4 h                 | %                         | ISO 294-4            | 0.1                      |
| Post- shrinkage, transverse                     | 60x60x2; 120 °C; 4 h                 | %                         | ISO 294-4            | 0.1                      |
| <b>Mechanical properties (23 °C/50 % r. h.)</b> |                                      |                           |                      |                          |
| C Tensile modulus                               | 1 mm/min                             | MPa                       | ISO 527-1,-2         | 12000                    |
| C Tensile Stress at break                       | 5 mm/min                             | MPa                       | ISO 527-1,-2         | 115                      |
| C Tensile Strain at break                       | 5 mm/min                             | %                         | ISO 527-1,-2         | 1.6                      |
| C Charpy impact strength                        | 23 °C                                | kJ/m <sup>2</sup>         | ISO 179-1eU          | 30                       |
| Izod impact strength                            | 23 °C                                | kJ/m <sup>2</sup>         | ISO 180-1U           | 30                       |
| Flexural modulus                                | 2 mm/min                             | MPa                       | ISO 178-A            | 11000                    |
| Flexural strength                               | 2 mm/min                             | MPa                       | ISO 178-A            | 170                      |
| Flexural strain at flexural strength            | 2 mm/min                             | %                         | ISO 178-A            | 2.0                      |
| <b>Thermal properties</b>                       |                                      |                           |                      |                          |
| C Melting temperature                           | 10 °C/min                            | °C                        | ISO 11357-1,-3       | 260                      |
| C Temperature of deflection under load          | 1.80 MPa                             | °C                        | ISO 75-1,-2          | 180                      |
| C Temperature of deflection under load          | 0.45 MPa                             | °C                        | ISO 75-1,-2          | 230                      |
| C Vicat softening temperature                   | 50 N; 50 °C/h                        | °C                        | ISO 306              | 220                      |
| <b>Electrical properties (23 °C/50 % r. h.)</b> |                                      |                           |                      |                          |
| C Comparative tracking index CTI                | Solution A                           | Rating                    | IEC 60112            | 225                      |
| <b>Other properties (23 °C)</b>                 |                                      |                           |                      |                          |
| C Density                                       |                                      | kg/m <sup>3</sup>         | ISO 1183             | 1825                     |
| <b>Processing conditions for test specimens</b> |                                      |                           |                      |                          |
| C Injection molding-Melt temperature            |                                      | °C                        | ISO 294              | 270                      |
| C Injection molding-Mold temperature            |                                      | °C                        | ISO 294              | 120                      |
| <b>Processing recommendations</b>               |                                      |                           |                      |                          |
| Drying temperature circulating air dryer        |                                      | °C                        | -                    | 120                      |
| Drying time circulating air dryer               |                                      | h                         | -                    | 4-8                      |
| Residual moisture content                       |                                      | %                         | Acc. to Karl Fischer | 0.00-0.02                |
| Melt temperature (Tmin - Tmax)                  |                                      | °C                        | -                    | 260-290                  |

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|------------------|----------------|------|----------|--------------------------|
| Mold temperature |                | °C   | -        | 110-130                  |

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#### Notes

**1** Typical properties: these are not to be construed as specifications

**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.

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Test values

Unless specified to the contrary, the values given have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum values. Kindly note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mould/die, the processing conditions and the coloring.

Processing note

Under the recommended processing conditions small quantities of decomposition product may be given off during processing. To preclude any risk to the health and well-being of the machine operatives, tolerance limits for the work environment must be ensured by the provision of efficient exhaust ventilation and fresh air at the workplace in accordance with the Safety Data Sheet. In order to prevent the partial decomposition of the polymer and the generation of volatile decomposition products, the prescribed processing temperatures should not be substantially exceeded. Since excessively high temperatures are generally the result of operator error or defects in the heating system, special care and controls are essential in these areas.

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