

# Pocan T3150XF 000000

PBT+PET, 55% glass fibers, injection molding, improved flowability, low tendency to warp, increased temperature peak load, increased strength and increased modulus

ISO Shortname: ISO 20028-PBT+PET,GF55,GHMR,07-190

| 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     | 30                       |
| C Molding shrinkage, parallel                         | 60x60x2; 280 °C / MT<br>90°C; 600 bar | %                         | ISO 294-4      | 0.3                      |
| C Molding shrinkage, transverse                       | 60x60x2; 280 °C / MT<br>90°C; 600 bar | %                         | ISO 294-4      | 0.8                      |
| 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   | 18500                    |
| C Tensile Stress at break                             | 5 mm/min                              | MPa                       | ISO 527-1,-2   | 160                      |
| C Tensile Strain at break                             | 5 mm/min                              | %                         | ISO 527-1,-2   | 1.5                      |
| C Charpy impact strength                              | 23 °C                                 | kJ/m <sup>2</sup>         | ISO 179-1eU    | 50                       |
| C Charpy impact strength                              | -30 °C                                | kJ/m <sup>2</sup>         | ISO 179-1eU    | 50                       |
| C Charpy notched impact strength                      | 23 °C                                 | kJ/m <sup>2</sup>         | ISO 179-1eA    | <10                      |
| C Charpy notched impact strength                      | -30 °C                                | kJ/m <sup>2</sup>         | ISO 179-1eA    | <10                      |
| Izod impact strength                                  | 23 °C                                 | kJ/m <sup>2</sup>         | ISO 180-1U     | 45                       |
| Izod impact strength                                  | -30 °C                                | kJ/m <sup>2</sup>         | ISO 180-1U     | 45                       |
| Izod notched impact strength                          | 23 °C                                 | kJ/m <sup>2</sup>         | ISO 180-1A     | <10                      |
| Izod notched impact strength                          | -30 °C                                | kJ/m <sup>2</sup>         | ISO 180-1A     | <10                      |
| Flexural modulus                                      | 2 mm/min                              | MPa                       | ISO 178-A      | 18000                    |
| Flexural strength                                     | 2 mm/min                              | MPa                       | ISO 178-A      | 260                      |
| Flexural strain at flexural strength                  | 2 mm/min                              | %                         | ISO 178-A      | 1.9                      |
| <b>Thermal properties</b>                             |                                       |                           |                |                          |
| C Melting temperature                                 | 10 °C/min                             | °C                        | ISO 11357-1,-3 | 225-260                  |
| C Temperature of deflection under load                | 1.80 MPa                              | °C                        | ISO 75-1,-2    | 210                      |
| C Temperature of deflection under load                | 0.45 MPa                              | °C                        | ISO 75-1,-2    | 230                      |
| Vicat softening temperature                           | 50 N; 120 °C/h                        | °C                        | ISO 306        | 210                      |
| C Coefficient of linear thermal expansion, parallel   | 23 to 55 °C                           | 10 <sup>-4</sup> /K       | ISO 11359-1,-2 | 0.1                      |
| C Coefficient of linear thermal expansion, transverse | 23 to 55 °C                           | 10 <sup>-4</sup> /K       | ISO 11359-1,-2 | 0.6                      |
| <b>Electrical properties (23 °C/50 % r. h.)</b>       |                                       |                           |                |                          |
| C Comparative tracking index CTI                      | Solution A                            | Rating                    | IEC 60112      | 425                      |
| <b>Other properties (23 °C)</b>                       |                                       |                           |                |                          |
| C Density   |                                       | kg/m <sup>3</sup>         | ISO 1183       | 1770                     |
| Bulk density  |                                       | kg/m <sup>3</sup>         | ISO 60         | 850                      |
| <b>Processing conditions for test specimens</b>       |                                       |                           |                |                          |
| C Injection molding-Melt temperature                  |                                       | °C                        | ISO 294        | 280                      |
| C Injection molding-Mold temperature                  |                                       | °C                        | ISO 294        | 90                       |
| <b>Processing recommendations</b>                     |                                       |                           |                |                          |
| Drying temperature circulating air dryer              |                                       | °C                        | -              | 120                      |



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| Property                          | Test Condition | Unit | Standard             | guide value <sup>1</sup> |
|-----------------------------------|----------------|------|----------------------|--------------------------|
| Drying time circulating air dryer |                | h    | -                    | 4-8                      |
| Residual moisture content         |                | %    | Acc. to Karl Fischer | 0.00-0.02                |
| Melt temperature (Tmin - Tmax)    |                | °C   | -                    | 270-290                  |
| Mold temperature                  |                | °C   | -                    | 80-100                   |

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

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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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