# Pocan B3235XF 000000

**PBT, 30 % glass fibers, injection molding, improved flowability**

**ISO Shortname:** ISO 20028-PBT,GF30,GHMR,07-090

| Property | Test Condition | Unit | Standard | guide value |
|---|---|---|---|---|
| **Rheological properties** | | | | |
| C Melt volume-flow rate | 260 °C; 2.16 kg | cm³/(10 min) | ISO 1133-1 | 20 |
| C Molding shrinkage, parallel | 60x60x2; 260 °C / MT 80 °C; 600 bar | % | ISO 294-4 | 0.4 |
| C Molding shrinkage, transverse | 60x60x2; 260 °C / MT 80 °C; 600 bar | % | ISO 294-4 | 1.0 |
| Post- shrinkage, parallel | 60x60x2; 150 °C; 1 h | % | ISO 294-4 | 0.1 |
| Post- shrinkage, transverse | 60x60x2; 150 °C; 1 h | % | ISO 294-4 | 0.1 |
| **Mechanical properties (23 °C/50 % r. h.)** | | | | |
| C Tensile modulus | 1 mm/min | MPa | ISO 527-1,-2 | 9200 |
| C Tensile Stress at break | 5 mm/min | MPa | ISO 527-1,-2 | 125 |
| C Tensile Strain at break | 5 mm/min | % | ISO 527-1,-2 | 2.7 |
| C Charpy impact strength | 23 °C | kJ/m² | ISO 179-1eU | 60 |
| C Charpy impact strength | -30 °C | kJ/m² | ISO 179-1eU | 60 |
| C Charpy notched impact strength | 23 °C | kJ/m² | ISO 179-1eA | 10 |
| C Charpy notched impact strength | -30 °C | kJ/m² | ISO 179-1eA | 10 |
| Izod impact strength | 23 °C | kJ/m² | ISO 180-1U | 55 |
| Izod impact strength | -30 °C | kJ/m² | ISO 180-1U | 55 |
| Izod notched impact strength | 23 °C | kJ/m² | ISO 180-1A | 11 |
| Izod notched impact strength | -30 °C | kJ/m² | ISO 180-1A | 10 |
| Flexural modulus | 2 mm/min | MPa | ISO 178-A | 8700 |
| Flexural strength | 2 mm/min | MPa | ISO 178-A | 195 |
| Flexural strain at flexural strength | 2 mm/min | % | ISO 178-A | 3.3 |
| Ball indentation hardness | | N/mm² | ISO 2039-1 | 145 |
| **Thermal properties** | | | | |
| C Melting temperature | 10 °C/min | °C | ISO 11357-1,-3 | 225 |
| C Temperature of deflection under load | 1.80 MPa | °C | ISO 75-1,-2 | 205 |
| C Temperature of deflection under load | 0.45 MPa | °C | ISO 75-1,-2 | 220 |
| C Temperature of deflection under load | 8.00 MPa | °C | ISO 75-1,-2 | 165 |
| Vicat softening temperature | 50 N; 120 °C/h | °C | ISO 306 | 210 |
| C Coefficient of linear thermal expansion, parallel | 23 to 55 °C | $10^{-4}$/K | ISO 11359-1,-2 | 0.3 |
| C Coefficient of linear thermal expansion, transverse | 23 to 55 °C | $10^{-4}$/K | ISO 11359-1,-2 | 1.1 |
| C Burning behavior UL 94 | 1.5 mm | Class | UL 94 | HB |
| C Burning behavior UL 94 | 0.75 mm | Class | UL 94 | HB |
| Glow wire test (GWFI) | 2.0 mm | °C | IEC 60695-2-12 | 750 |
| Glow wire test (GWIT) | 2.0 mm | °C | IEC 60695-2-13 | 775 |
| Burning behavior US-FMVSS302 | | | ISO 3795 | passed |

# Pocan B3235XF 000000

| Property | Test Condition | Unit | Standard | guide value |
|---|---|---|---|---|
| **Electrical properties (23 °C/50 % r. h.)** | | | | |
| C Comparative tracking index CTI | Solution A | Rating | IEC 60112 | 450 |
| **Other properties (23 °C)** | | | | |
| C Density | | kg/m³ | ISO 1183 | 1470 |
| Bulk density | | kg/m³ | ISO 60 | 650 |
| **Processing conditions for test specimens** | | | | |
| C Injection molding-Melt temperature | | °C | ISO 294 | 260 |
| C Injection molding-Mold temperature | | °C | ISO 294 | 80 |
| **Processing recommendations** | | | | |
| Drying temperature circulating air dryer | | °C | - | 120 |
| Drying time circulating air dryer | | h | - | 4-8 |
| Residual moisture content | | % | Acc. to Karl Fischer | 0-0.02 |
| 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.

# Pocan B3235XF 000000

**Disclaimer**

Disclaimer for commercial products

This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

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.

**LANXESS** DEUTSCHLAND GMBH | D - 50569 COLOGNE