

Pocan B600 000000

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

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

Property	Test Condition	Unit	Standard	guide value ¹
Rheological properties				
C Melt volume-flow rate	250 °C; 2.16 kg	cm ³ /(10 min)	ISO 1133-1	225
C Molding shrinkage, parallel	60x60x2; 260 °C / MT 80 °C; 600 bar	%	ISO 294-4	1.6
C Molding shrinkage, transverse	60x60x2; 260 °C / MT 80 °C; 600 bar	%	ISO 294-4	1.6
Post- shrinkage, parallel	60x60x2; 150 °C; 1 h	%	ISO 294-4	0.3
Post- shrinkage, transverse	60x60x2; 150 °C; 1 h	%	ISO 294-4	0.3
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2700
C Yield stress	50 mm/min	MPa	ISO 527-1,-2	55
C Yield strain	50 mm/min	%	ISO 527-1,-2	2.5
C Nominal strain at break	50 mm/min	%	ISO 527-1,-2	2.9
Izod impact strength	23 °C	kJ/m ²	ISO 180-1U	40
Izod notched impact strength		kJ/m ²	ISO 180-1A	<10
Flexural modulus	2 mm/min	MPa	ISO 178-A	2800
Flexural strength	2 mm/min	MPa	ISO 178-A	100
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	5.6
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	85
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	74
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	180
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	1.1
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	1.1
Other properties (23 °C)				
C Density		kg/m ³	ISO 1183	1310
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	0.00-0.02

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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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

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