

# Pocan B 1100 000000

PBT, non-reinforced, extrusion, injection molding, improved flowability

ISO Shortname: ISO 7792-1-PBT, G, 07-030

Property	Test Condition	Unit	Standard	guide value
<b>Rheological properties</b>				
C Melt volume-flow rate	250 °C; 2.16 kg	cm <sup>3</sup> /(10 min)	ISO 1133-1	80
<b>Mechanical properties (23 °C/50 % r. h.)</b>				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2700
C Charpy impact strength	23 °C	kJ/m <sup>2</sup>	ISO 179-1eU	130
C Charpy impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 179-1eU	90
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	90
Izod impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 180-1U	75
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
Izod notched impact strength	-40 °C	kJ/m <sup>2</sup>	ISO 180-1A	<10
Flexural modulus	2 mm/min	MPa	ISO 178-A	2750
Flexural strength	2 mm/min	MPa	ISO 178-A	85
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	6.0
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	75
<b>Thermal properties</b>				
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	60
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	160
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	170
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	1.3
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	1.3
C Burning behavior UL 94	1.5 mm	Class	UL 94	HB
C Burning behavior UL 94	0.75 mm	Class	UL 94	HB
C Oxygen index	Method A	%	ISO 4589-2	24
Thermal conductivity	23 °C	W/(m·K)	ISO 8302	0.25
Resistance to heat (ball pressure test)		°C	IEC 60695-10-2	190
<b>Electrical properties (23 °C/50 % r. h.)</b>				
C Relative permittivity	100 Hz	-	IEC 60250	3.4
C Relative permittivity	1 MHz	-	IEC 60250	3.2
C Dissipation factor	100 Hz	10 <sup>-4</sup>	IEC 60250	20
C Dissipation factor	1 MHz	10 <sup>-4</sup>	IEC 60250	190
C Volume resistivity		Ohm·m	IEC 60093	>1E13
C Surface resistivity		Ohm	IEC 60093	>1E15
<b>Other properties (23 °C)</b>				
C Water absorption (Saturation value)	Water at 23 °C	%	ISO 62	0.5



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Property	Test Condition	Unit	Standard	guide value
C Water absorption (Equilibrium value)	23 °C; 50 % RH	%	ISO 62	0.2
C 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>				
C Injection molding-Melt temperature		°C	ISO 294	260
C Injection molding-Mold temperature		°C	ISO 294	80
<b>Processing recommendations</b>				
Drying time circulating air dryer		h	-	4-8
Drying temperature circulating air dryer		°C	-	120
Residual moisture content		%	Acc. to Karl Fischer	0.00-0.02

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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