

# Datasheet

## Pocan C1203 000000

PBT+PC, non-reinforced, injection molding, low tendency to warp, improved surface finish, improved impact strength

ISO Shortname: ISO 20028-PBT+PC,,GHPR,11-020

Property	Test Condition	Unit	Standard	guide value <sup>1</sup>
<b>Rheological properties</b>				
C Melt volume-flow rate	260 °C; 5 kg	cm <sup>3</sup> /(10 min)	ISO 1133-1	25
C Molding shrinkage, parallel	60x60x2; 250°C / WZ 70°C; 600 bar	%	ISO 294-4	0.8
C Molding shrinkage, transverse	60x60x2; 250°C / WZ 70°C; 600 bar	%	ISO 294-4	0.8
Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.9
Post- shrinkage, transverse	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.9
<b>Mechanical properties (23 °C/50 % r. h.)</b>				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2500
C Yield stress	50 mm/min	MPa	ISO 527-1,-2	55
C Yield strain	50 mm/min	%	ISO 527-1,-2	4.2
C Charpy impact strength	23 °C	kJ/m <sup>2</sup>	ISO 179-1eU	N
C Charpy notched impact strength	23 °C	kJ/m <sup>2</sup>	ISO 179-1eA	60
C Charpy notched impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 179-1eA	23
Izod impact strength	23 °C	kJ/m <sup>2</sup>	ISO 180-1U	N
Izod notched impact strength	23 °C	kJ/m <sup>2</sup>	ISO 180-1A	55
Izod notched impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 180-1A	20
Flexural modulus	2 mm/min	MPa	ISO 178-A	2200
Flexural strength	2 mm/min	MPa	ISO 178-A	80
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	5.5
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	89
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	108
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	0.89
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	0.93
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	121
<b>Electrical properties (23 °C/50 % r. h.)</b>				
C Volume resistivity		Ohm·m	IEC 62631-3	>1E13
C Surface resistivity		Ohm	IEC 62631-3	>1E14
C Electric strength	1 mm	kV/mm	IEC 60243-1	32
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	600
<b>Other properties (23 °C)</b>				

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Property	Test Condition	Unit	Standard	guide value <sup>1</sup>
C Density		kg/m <sup>3</sup>	ISO 1183	1200
Bulk density		kg/m <sup>3</sup>	ISO 60	750
<b>Processing conditions for test specimens</b>				
C Injection molding-Melt temperature		°C	ISO 294	250
C Injection molding-Mold temperature		°C	ISO 294	70
<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	-	250-270
Mold temperature		°C	-	60-90

### 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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