

# Pocan B7616 000000

PBT+PC, 15 % glass fibers, injection molding, low tendency to warp, improved surface finish

ISO Shortname: ISO 20028-PBT+PC,GF15,GHMR,09-050

Property	Test Condition	Unit	Standard	guide value
<b>Rheological properties</b>				
C Melt volume-flow rate	260 °C; 2.16 kg	cm <sup>3</sup> /(10 min)	ISO 1133-1	17
C Molding shrinkage, parallel	60x60x2; 250 °C / WZ 80° C; 600 bar	%	ISO 294-4	0.7
C Molding shrinkage, transverse	60x60x2; 250 °C / WZ 80° C; 600 bar	%	ISO 294-4	0.5
Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.4
Post- shrinkage, transverse	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.2
<b>Mechanical properties (23 °C/50 % r. h.)</b>				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	4600
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	75
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	4.2
C Charpy impact strength	23 °C	kJ/m <sup>2</sup>	ISO 179-1eU	45
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	35
Izod impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 180-1U	40
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	4500
Flexural strength	2 mm/min	MPa	ISO 178-A	130
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	4.7
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	120
Ball indentation hardness		N/mm <sup>2</sup>	ISO 2039-1	160
<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	105
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	135
C Temperature of deflection under load	8.00 MPa	°C	ISO 75-1,-2	75
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	145
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	0.5
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	0.8
C Burning behavior UL 94	1.5 mm	Class	UL 94	HB
C Burning behavior UL 94	0.75 mm	Class	UL 94	HB
Resistance to heat (ball pressure test)		°C	IEC 60695-10-2	150
Glow wire test (GWFI)	2.0 mm	°C	IEC 60695-2-12	750
<b>Electrical properties (23 °C/50 % r. h.)</b>				
C Relative permittivity	100 Hz	-	IEC 60250	3.5
C Relative permittivity	1 MHz	-	IEC 60250	3.4
C Dissipation factor	1 MHz	10 <sup>-4</sup>	IEC 60250	130
C Volume resistivity		Ohm-m	IEC 60093	> 1E13



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Property	Test Condition	Unit	Standard	guide value
C Surface resistivity		Ohm	IEC 60093	> 1E15
C Electric strength	1 mm	kV/mm	IEC 60243-1	34
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	200
<b>Other properties (23 °C)</b>				
C Water absorption (Saturation value)	Water at 23 °C	%	ISO 62	0.4
C Water absorption (Equilibrium value)	23 °C; 50 % RH	%	ISO 62	0.1
C Density		kg/m <sup>3</sup>	ISO 1183	1350
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	250
C Injection molding-Mold temperature		°C	ISO 294	80
<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	0-0.02
Melt temperature (Tmin - Tmax)		°C	-	250-260
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.



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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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