

# Datasheet Pocan B3225XF 000000

PBT, 20% glass fibers, injection molding, improved flowability, improved impact strength

ISO Shortname: ISO 20028-PBT,GF20,GHMR,07-060

Property	Test Condition	Unit	Standard	guide value <sup>1</sup>
Rheological properties				
C Melt volume-flow rate	260 °C; 2.16 kg	cm <sup>3</sup> /(10 min)	ISO 1133-1	35
C Molding shrinkage, parallel	60x60x2; 260 °C / MT 80 °C; 600 bar	%	ISO 294-4	0.5
C Molding shrinkage, transverse	60x60x2; 260 °C / MT 80 °C; 600 bar	%	ISO 294-4	1.1
Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.1
Post- shrinkage, transverse	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.1
Mechanical properties (23 °C/50 % r. h.)				
CTensile modulus	1 mm/min	MPa	ISO 527-1,-2	6500
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	105
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	3.5
C Charpy impact strength	23 °C	kJ/m²	ISO 179-1eU	60
C Charpy impact strength	-30 °C	kJ/m²	ISO 179-1eU	40
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	50
Izod impact strength	-30 °C	kJ/m²	ISO 180-1U	40
Izod notched impact strength	23 °C	kJ/m²	ISO 180-1A	<10
Izod notched impact strength	-30 °C	kJ/m²	ISO 180-1A	<10
Flexural modulus	2 mm/min	MPa	ISO 178-A	6100
Flexural strength	2 mm/min	MPa	ISO 178-A	165
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	3.7
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	160
Ball indentation hardness		N/mm²	ISO 2039-1	135
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	200
CTemperature 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	130
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	205
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	0.2
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	НВ
C Burning behavior UL 94	0.75 mm	Class	UL 94	НВ
Glow wire test (GWFI)	2.0 mm	°C	IEC 60695-2-12	750



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## Pocan B3225XF 000000

Property	Test Condition	Unit	Standard	guide value <sup>1</sup>
Glow wire test (GWIT)	2.0 mm	°C	IEC 60695-2-13	775
Electrical properties (23 °C/50 % r. h.)				
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	400
Other properties (23 °C)		'		
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/m³	ISO 1183	1400
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	0.00-0.02
Melt temperature (Tmin - Tmax)		°C	-	250-270
Mold temperature		°C	-	80-100

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications

CThese 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.

#### Flammability

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#### Page 3 of 3

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