

Datasheet

Pocan BF2505 000000

PBT, non-reinforced, injection molding, flame retardant

ISO Shortname: ISO 20028-PBT,,GFMHR, 11-030; ISO 1043-4 FR(17)

Property	Test Condition	Unit	Standard	guide value ¹
Rheological properties				
C Molding shrinkage, parallel	60x60x2; 260 °C / MT 80 °C; 600 bar	%	ISO 294-4	2.2
C Molding shrinkage, transverse	60x60x2; 260 °C / MT 80 °C; 600 bar	%	ISO 294-4	2.2
Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.2
Post- shrinkage, transverse	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.2
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	3000
C Yield stress	50 mm/min	MPa	ISO 527-1,-2	50
C Yield strain	50 mm/min	%	ISO 527-1,-2	3
C Nominal strain at break	50 mm/min	%	ISO 527-1,-2	8
Izod impact strength	23 °C	kJ/m ²	ISO 180-1U	100
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	<10
Flexural modulus	2 mm/min	MPa	ISO 178-A	3000
Flexural strength	2 mm/min	MPa	ISO 178-A	90
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	80
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	60
C Burning behavior UL 94	1.5 mm	Class	UL 94	V-0
C Burning behavior UL 94	0.75 mm	Class	UL 94	V-0
Glow wire test (GWFI)	0.75 mm	°C	IEC 60695-2-12	960
Glow wire test (GWIT)	0.75 mm	°C	IEC 60695-2-13	875
Electrical properties (23 °C/50 % r. h.)				
Comparative tracking index CTI	Solution A	PLC	UL 746A	0
Other properties (23 °C)				
C Density		kg/m ³	ISO 1183	1430
Processing conditions for test specimens				
C Injection molding-Melt temperature		°C	ISO 294	250
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

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Property	Test Condition	Unit	Standard	guide value ¹
Residual moisture content		%	Acc. to Karl Fischer	0.00-0.02
Melt temperature (Tmin - Tmax)		°C	-	240-260
Mold temperature		°C	-	80-100

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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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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