

Data sheet

Pocan BF4232HR 901510

PBT, 30 % glass fibers, injection molding, flame retardant, hydrolysis stabilized

ISO Shortname: ISO 20028-PBT,GF30,GFHMRW,09-100; ISO 1043-4 FR(17)

Property	Test Condition	Unit	Standard	guide value
Rheological properties				
C Melt volume-flow rate	260 °C; 2.16 kg	cm ³ /(10 min)	ISO 1133-1	16
C Molding shrinkage, parallel	60x60x2; 250 °C / WZ 80° C; 600 bar %		ISO 294-4	0.4
C Molding shrinkage, transverse	60x60x2; 250 °C / WZ 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.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	9800
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	120
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	2.0
C Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	40
C Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	<10
Izod impact strength	23 °C	kJ/m ²	ISO 180-1U	35
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	<10
Flexural modulus	2 mm/min	MPa	ISO 178-A	10000
Flexural strength	2 mm/min	MPa	ISO 178-A	185
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	2.3
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	195
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	215
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10-4/K	ISO 11359-1,-2	0.3
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10-4/K	ISO 11359-1,-2	1.0
C Burning behavior UL 94	1.5 mm	Class	UL 94	V-0
C Burning behavior UL 94	0.4 mm	Class	UL 94	V-0
C Oxygen index	Method A	%	ISO 4589-2	36.4
Resistance to heat (ball pressure test)		°C	IEC 60695-10-2	212
Glow wire test (GWFI)	0.4 mm	°C	IEC 60695-2-12	960
Glow wire test (GWFI)	0.75 mm	°C	IEC 60695-2-12	960
Glow wire test (GWFI)	1.5 mm	°C	IEC 60695-2-12	960
Glow wire test (GWFI)	3.0 mm	°C	IEC 60695-2-12	960
Glow wire test (GWIT)	0.4 mm	°C	IEC 60695-2-13	900
Glow wire test (GWIT)	0.75 mm	°C	IEC 60695-2-13	850
Glow wire test (GWIT)	1.5 mm	°C	IEC 60695-2-13	725
Glow wire test (GWIT)	3.0 mm	°C	IEC 60695-2-13	725
Electrical properties (23 °C/50 % r. h.)				
C Electric strength	1 mm	kV/mm	IEC 60243-1	29.8
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	225
Comparative tracking index CTI	Solution A	PLC	UL 746A	3
Other properties (23 °C)				
C Density		kg/m ³	ISO 1183	1670
Bulk density		kg/m ³	ISO 60	700
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
Residual moisture content		%	Acc. to Karl Fischer	0.00-0.02
Melt temperature (Tmin - Tmax)		°C	-	240-260
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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Typical Properties

Property data is provided as general information only. Property values are approximate and are not part of the product specifications.

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Flammability results are based on small-scale laboratory tests for purposes of relative comparison and are not intended to reflect the hazards presented by this or any other material under actual fire conditions.

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Color and Visual Effects

Type and quantity of pigments or additives used to obtain certain colors and special visual effects can affect mechanical properties.

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