

Datasheet

Pocan B3235XF 000000

PBT, 30% glass fibers, injection molding, improved flowability

ISO Shortname: ISO 20028-PBT,GF30,GHMR,07-090

Property	Test Condition	Unit	Standard	guide value ¹
Rheological properties				
C Melt volume-flow rate	260 °C; 2.16 kg	cm ³ /(10 min)	ISO 1133-1	20
C Molding shrinkage, parallel	60x60x2; 260 °C / MT 80 °C; 600 bar	%	ISO 294-4	0.4
C Molding shrinkage, transverse	60x60x2; 260 °C / MT 80 °C; 600 bar	%	ISO 294-4	1.0
Post- shrinkage, parallel	60x60x2; 150 °C; 1 h	%	ISO 294-4	0.1
Post- shrinkage, transverse	60x60x2; 150 °C; 1 h	%	ISO 294-4	0.1
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	9200
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	125
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	2.7
C Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	60
C Charpy impact strength	-30 °C	kJ/m ²	ISO 179-1eU	60
C Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	10
C Charpy notched impact strength	-30 °C	kJ/m ²	ISO 179-1eA	10
Izod impact strength	23 °C	kJ/m ²	ISO 180-1U	55
Izod impact strength	-30 °C	kJ/m ²	ISO 180-1U	55
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	11
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-1A	10
Flexural modulus	2 mm/min	MPa	ISO 178-A	8700
Flexural strength	2 mm/min	MPa	ISO 178-A	195
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	3.3
Ball indentation hardness		N/mm ²	ISO 2039-1	145
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	205
C Temperature 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	165
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	210
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	1.1
C Burning behavior UL 94	1.5 mm	Class	UL 94	HB
C Burning behavior UL 94	0.75 mm	Class	UL 94	HB
Glow wire test (GWFI)	2.0 mm	°C	IEC 60695-2-12	750
Glow wire test (GWIT)	2.0 mm	°C	IEC 60695-2-13	775

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Property	Test Condition	Unit	Standard	guide value ¹
Burning behavior US-FMVSS302			ISO 3795	passed
Electrical properties (23 °C/50 % r. h.)				
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	475
Other properties (23 °C)				
C Density		kg/m ³	ISO 1183	1470
Bulk density		kg/m ³	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

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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