

Pocan BF4212 00000

PBT, 15% glass fibers, injection molding, flame retardant

ISO Shortname: ISO 7792-PBT,GF15,GFHMR,09-070; ISO 1043-4 FR(17)

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	14
C Molding shrinkage, parallel	60x60x2; 260 °C / MT 80 °C; 600 bar	%	ISO 294-4	0.7
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.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	7000
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	110
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	2.6
Izod impact strength	23 °C	kJ/m ²	ISO 180-1U	25
Izod impact strength	-30 °C	kJ/m ²	ISO 180-1U	25
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	<10
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-1A	<10
Flexural modulus	2 mm/min	MPa	ISO 178-A	6200
Flexural strength	2 mm/min	MPa	ISO 178-A	160
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	3.4
Thermal properties				
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	222
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	190
Burning behavior UL 94	0.75 mm	Class	UL 94	V0
Burning behavior UL 94	1.5 mm	Class	UL 94	V0
Burning behavior UL 94	3.0 mm	Class	UL 94	V0
Resistance to heat (ball pressure test)		°C	IEC 60695-10-2	212
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)	0.75 mm	°C	IEC 60695-2-13	850
Glow wire test (GWIT)	1.5 mm	°C	IEC 60695-2-13	750
Glow wire test (GWIT)	3.0 mm	°C	IEC 60695-2-13	725
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	212
Electrical properties (23 °C/50 % r. h.)				
C Volume resistivity		Ohm·m	IEC 62631-3	>1E14
C Surface resistivity		Ohm	IEC 62631-3	>1E17
C Electric strength	1 mm	kV/mm	IEC 60243-1	29
Comparative tracking index CTI	Solution A	PLC	UL 746A	3
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	0.2



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Property	Test Condition	Unit	Standard	guide value ¹
C Density		kg/m ³	ISO 1183	1533
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
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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