

# Datasheet Pocan AF4130 000000

PBT+ASA, 30% glass fibers, injection molding, flame retardant, low tendency to warp

ISO Shortname: ISO 20028-PBT+ASA,GF30,GFMR,09-110; ISO1043-4 FR(17)

Property	Test Condition	Unit	Standard	guide value <sup>1</sup>
Rheological properties				
C Melt volume-flow rate	260 °C; 5 kg	cm <sup>3</sup> /(10 min)	ISO 1133-1	25
C Molding shrinkage, parallel	60x60x2; 250 °C / WZ 80° C; 600 bar	%	ISO 294-4	0.3
C Molding shrinkage, transverse	60x60x2; 250 °C / WZ 80° C; 600 bar	%	ISO 294-4	0.8
Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.2
Post- shrinkage, transverse	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.4
Mechanical properties (23 °C/50 % r. h.)	,			
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	10500
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/m²	ISO 179-1eU	50
C Charpy impact strength	-30 °C	kJ/m²	ISO 179-1eU	45
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	45
Izod impact strength	-30 °C	kJ/m²	ISO 180-1U	45
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	10000
Flexural strength	2 mm/min	MPa	ISO 178-A	185
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	2.5
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	185
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	214
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	1.0
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
C Burning behavior UL 94-5V	1.5 mm	Class	UL 94	5VA
C Oxygen index	Method A	%	ISO 4589-2	30
Resistance to heat (ball pressure test)				
		°C	IEC 60695-10-2	200
Glow wire test (GWFI)	0.75 mm	°C	IEC 60695-10-2 IEC 60695-2-12	200 960



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Property	<b>Test Condition</b>	Unit	Standard	guide value <sup>1</sup>
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	800
Glow wire test (GWIT)	1.5 mm	°C	IEC 60695-2-13	800
Glow wire test (GWIT)	3.0 mm	°C	IEC 60695-2-13	800
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	150
Electrical properties (23 °C/50 % r. h.)				
C Volume resistivity		Ohm-m	IEC 62631-3	7E+14
C Surface resistivity		Ohm	IEC 62631-3	1E+17
C Electric strength	1 mm	kV/mm	IEC 60243-1	38
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	250
Comparative tracking index CTI	Solution A	PLC	UL 746A	2
Other properties (23 °C)	,	,		
C Density		kg/m³	ISO 1183	1590
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

#### 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.

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