

# Pocan<sup>®</sup> AF4130

## (PBT+ASA)–I–GF30 FR(17)

30% Glass Reinforced, Injection Molding, Flame Retardant, Low Warpage

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	VALUE		
Melt volume–flow rate	25	cm <sup>3</sup> /10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage (normal)	0.8	%	ISO 294–4
Molding shrinkage (parallel)	0.3	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	VALUE		
Tensile modulus	10500	MPa	ISO 527–1/–2
Stress at break	120	MPa	ISO 527–1/–2
Strain at break	2	%	ISO 527–1/–2
Flexural modulus	10000	MPa	ISO 178
Flexural strength	185	MPa	ISO 178
Flexural strain at flexural strength	2.5	%	ISO 178–A
Charpy impact strength (+23°C)	50	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	45	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	6.3	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength (+23°C)	45	kJ/m <sup>2</sup>	ISO 180/1U
Izod impact strength (–30°C)	45	kJ/m <sup>2</sup>	ISO 180–1U
<b>THERMAL PROPERTIES</b>			
	VALUE		
Melting temperature (10°C/min)	222	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	185	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	214	°C	ISO 75–1/–2

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Coeff. of linear therm. expansion (parallel)	0.2	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1	E-4/°C	ISO 11359-1/-2
Burning Behav. at 0.75 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	0.75	mm	IEC 60695-11-10
Burning Behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	3	mm	IEC 60695-11-10
Oxygen index	30	%	ISO 4589-1/-2
Glow Wire Flammability Index GWFI	960	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.75	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	960	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	1.5	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	800	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.75	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	800	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	1.5	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	800	°C	IEC 60695-2-13
GWIT (Thickness (3) tested)	3	mm	IEC 60695-2-13
<b><i>ELECTRICAL PROPERTIES</i></b>	<b><i>VALUE</i></b>		
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	38	kV/mm	IEC 60243-1
Comparative tracking index	250	V	IEC 60112
Comparative tracking index (PLC)	2	class	UL 746A
<b><i>OTHER PROPERTIES</i></b>	<b><i>VALUE</i></b>		
Density	1590	kg/m <sup>3</sup>	ISO 1183

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b><i>PROCESSING RECOMMENDATIONS</i></b>			
Drying temperature circulating air dryer	120	°C	
Drying time circulating air dryer	4–8	h	
Residual moisture content	0.00–0.02	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	240–260	°C	
Mold temperature	80–100	°C	