

Pocan[®] A3121

(PBT+PET+ASA)—GF20

20% Glass Fiber Reinforced, Injection Molding, Excellent Surface Properties, Low Warpage

Print Date: 2025-08-21

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES		VALUE	
Melt volume—flow rate	20	cm ³ /10min	ISO 1133
Temperature	270	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	0.7	%	ISO 294-4
Molding shrinkage (parallel)	0.3	%	ISO 294-4
MECHANICAL PROPERTIES		VALUE	
Tensile modulus	7000	MPa	ISO 527-1/-2
Stress at break	110	MPa	ISO 527-1/-2
Strain at break	2.9	%	ISO 527-1/-2
Flexural modulus	7000	MPa	ISO 178
Flexural strength	170	MPa	ISO 178
Flexural strain at flexural strength	3.2	%	ISO 178-A
Charpy impact strength (+23°C)	55	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	40	kJ/m ²	ISO 179/1eU
Izod impact strength (+23°C)	50	kJ/m ²	ISO 180/1U
Izod impact strength (-30°C)	45	kJ/m ²	ISO 180-1U
THERMAL PROPERTIES		VALUE	
Temp. of deflection under load (1.80 MPa)	175	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	215	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.3	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.9	E-4/°C	ISO 11359-1/-2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Burning Behav. at 0.75 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	0.75	mm	IEC 60695-11-10
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10

ELECTRICAL PROPERTIES	VALUE		
Comparative tracking index	250	V	IEC 60112

OTHER PROPERTIES	VALUE		
Water absorption	0.4	%	Sim. to ISO 62
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1430	kg/m³	ISO 1183

PROCESSING RECOMMENDATIONS	VALUE		
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)	260-280	°C	
Mold temperature	80-100	°C	

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