

Pocan[®] A3123

(PBT+PET+ASA)—GF20

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

Print Date: 2025-01-21

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	VALUE		
Molding shrinkage (normal)	0.7	%	ISO 294-4
Molding shrinkage (parallel)	0.4	%	ISO 294-4
MECHANICAL PROPERTIES	VALUE		
Tensile modulus	6700	MPa	ISO 527-1/-2
Stress at break	100	MPa	ISO 527-1/-2
Strain at break	3	%	ISO 527-1/-2
Flexural modulus	6300	MPa	ISO 178
Flexural strength	155	MPa	ISO 178
Flexural strain at flexural strength	3.2	%	ISO 178-A
Charpy impact strength (+23°C)	50	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	35	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	4	kJ/m²	ISO 179/1eA
Izod impact strength (+23°C)	45	kJ/m²	ISO 180/1U
THERMAL PROPERTIES	VALUE		
Melting temperature range (10°C/min)	220-260	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	165	°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)	1	E-4/°C	ISO 11359-1/-2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
OTHER PROPERTIES	VALUE		
Density	1400	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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