Property Data

Envalior
Imagine the Future

Pocan® B1100

PBT

Injection Molding, Unreinforced, Extrusion, Food Contact Quality, Improved flow

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate	80	cm³/10min	ISO 1133
Temperature	250	°C	ISO 1133
Load	2.16	kg	ISO 1133
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	2700	MPa	ISO 527–1/–2
Flexural modulus	2750	MPa	ISO 178
Flexural strength	85	MPa	ISO 178
Flexural strain at flexural strength	6	%	ISO 178–A
Charpy impact strength (+23°C)	130	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	90	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3	kJ/m²	ISO 179/1eA
Izod impact strength (+23°C)	90	kJ/m²	ISO 180/1U
Izod impact strength (–30°C)	75	kJ/m²	ISO 180–1U
THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	225	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	60	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	160	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	1.3	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	1.3	E–4/°C	ISO 11359–1/–2
Burning Behav. at 0.75 mm nom. thickn.	HB	class	IEC 60695–11–10
Thickness tested	0.75	mm	IEC 60695–11–10

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
Oxygen index	24	%	ISO 4589-1/-2

ELECTRICAL PROPERTIES	VALUE		
Relative permittivity (100Hz)	3.4	-	IEC 62631-2-1
Relative permittivity (1 MHz)	3.2	-	IEC 62631-2-1
Dissipation factor (100 Hz)	20	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	190	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2

OTHER PROPERTIES	VALUE		
Water absorption	0.5	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1300	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)	250-270	°C	
Mold temperature	80-100	°C	