

Pocan[®] B1700

PBT

Extrusion, Unreinforced, Food Contact Quality

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES		VALUE	
Melt volume–flow rate	8	cm ³ /10min	ISO 1133
Temperature	250	°C	ISO 1133
Load	2.16	kg	ISO 1133
MECHANICAL PROPERTIES		VALUE	
Tensile modulus	2600	MPa	ISO 527–1/–2
Yield stress	55	MPa	ISO 527–1/–2
Yield strain	4	%	ISO 527–1/–2
Nominal strain at break	>50	%	ISO 527–1/–2
Flexural strength	85	MPa	ISO 178
Flexural strain at flexural strength	6	%	ISO 178–A
Charpy impact strength (+23°C)	N	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	230	kJ/m ²	ISO 179/1eU
Izod impact strength (+23°C)	N	kJ/m ²	ISO 180/1U
Izod impact strength (–30°C)	180	kJ/m ²	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)	140	°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



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

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)	15	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	200	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	30	kV/mm	IEC 60243-1
Comparative tracking index	600	V	IEC 60112

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	

