Property Data

Envalior
Imagine the Future

Pocan® B1400

PBT

Unreinforced, Injection Molding, Extrusion, Food Contact Quality, General purpose

Print Date: 2025-11-20

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume-flow rate	32	cm³/10min	ISO 1133
Temperature	250	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	1.7	%	ISO 294-4
Molding shrinkage (parallel)	1.7	%	ISO 294-4
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
Flexural modulus	2300	MPa	ISO 178
Flexural strength	85.5	MPa	ISO 178
Flexural strain at flexural strength	6	%	ISO 178-A
Charpy impact strength (+23°C)	230	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	120	kJ/m²	ISO 179/1eU
Izod impact strength (+23°C)	150	kJ/m²	ISO 180/1U
Izod impact strength (-30°C)	110	kJ/m²	ISO 180-1U
THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	225	°C	ISO 11357-1/-3
Temp. of deflection under load (0.45 MPa)	130	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	1.13	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.14	E-4/°C	ISO 11359-1/-2

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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
Electric strength	28	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	

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