Property Data

Envalior
Imagine the Future

Pocan® B1703

PBT

Extrusion, Unreinforced, Food Contact Quality, General purpose

Print Date: 2025–11–20

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate	15	cm³/10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	2.1	%	ISO 294–4
Molding shrinkage (parallel)	2.1	%	ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	2700	MPa	ISO 527–1/–2
Yield stress	60	MPa	ISO 527–1/–2
Yield strain	10	%	ISO 527–1/–2
Nominal strain at break	16	%	ISO 527–1/–2
Flexural modulus	2500	MPa	ISO 178
Flexural strength	85	MPa	ISO 178
Flexural strain at flexural strength	7	%	ISO 178–A
Charpy impact strength (+23°C)	N	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	N	kJ/m²	ISO 179/1eU
Izod impact strength (+23°C)	N	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
Coeff. of linear therm. expansion (parallel)	1.1	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	1.1	E–4/°C	ISO 11359–1/–2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
ELECTRICAL PROPERTIES	**VALUE**		
Comparative tracking index	600	V	IEC 60112
OTHER PROPERTIES	**VALUE**		
Density	1310	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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