Property Data

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Pocan® B1205XF

PBT

Injection Molding, Unreinforced, High Flow, Impact Modified

Print Date: 2025–08–21

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate	50	cm³/10min	ISO 1133
Temperature	250	°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	2500	MPa	ISO 527–1/–2
Yield stress	55	MPa	ISO 527–1/–2
Yield strain	5	%	ISO 527–1/–2
Nominal strain at break	10	%	ISO 527–1/–2
Flexural modulus	2500	MPa	ISO 178
Flexural strength	85	MPa	ISO 178
Flexural strain at flexural strength	5.9	%	ISO 178–A
Charpy impact strength (+23°C)	140	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	120	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3.5	kJ/m²	ISO 179/1eA
Izod impact strength (+23°C)	110	kJ/m²	ISO 180/1U
Izod impact strength (–30°C)	90	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

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Temp. of deflection under load (0.45 MPa)	150	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	1.2	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.2	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
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	3	mm	IEC 60695-11-10

ELECTRICAL PROPERTIES	VALUE		
Comparative tracking index	600	V	IEC 60112

OTHER PROPERTIES	VALUE		
Density	1290	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	