Property Data

Envalior
Imagine the Future

Pocan® B1205XHR

PBT

Injection Molding, Unreinforced, Hydrolysis Stabilized

Print Date: 2025-08-21

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume-flow rate	60	cm³/10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	2.2	%	ISO 294-4
Molding shrinkage (parallel)	2.2	%	ISO 294-4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	2100	MPa	ISO 527-1/-2
Yield stress	50	MPa	ISO 527-1/-2
Yield strain	5	%	ISO 527-1/-2
Nominal strain at break	15	%	ISO 527-1/-2
Flexural modulus	2200	MPa	ISO 178
Flexural strength	75	MPa	ISO 178
Flexural strain at flexural strength	6.7	%	ISO 178-A
Charpy impact strength (+23°C)	140	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	80	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4	kJ/m²	ISO 179/1eA
Izod impact strength (+23°C)	100	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)	140	°C	ISO 75-1/-2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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
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
Comparative tracking index (PLC)	0	class	UL 746A

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	

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