Property Data

Envalior
Imagine the Future

Pocan® B5220XF

PBT–GB20

20% Glass Beads Reinforced, Injection Molding, High Flow, Impact Modified, Low Warpage

Print Date: 2025–10–04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate	34	cm³/10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (normal)	2.3	%	ISO 294–4
Molding shrinkage (parallel)	2.2	%	ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	3100	MPa	ISO 527–1/–2
Stress at break	45	MPa	ISO 527–1/–2
Strain at break	6	%	ISO 527–1/–2
Flexural modulus	3300	MPa	ISO 178
Flexural strength	90	MPa	ISO 178
Flexural strain at flexural strength	5	%	ISO 178–A
Charpy impact strength (+23°C)	45	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	25	kJ/m²	ISO 179/1eU
Izod impact strength (+23°C)	32	kJ/m²	ISO 180/1U
Izod impact strength (–30°C)	20	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)	80	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	170	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	1	E–4/°C	ISO 11359–1/–2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Coeff. of linear therm. expansion (normal)	1	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	275	V	IEC 60112

OTHER PROPERTIES	VALUE		
Density	1420	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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