Property Data

Envalior
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Pocan® BFN2502

PBT FR(40)

Injection Molding, Unreinforced, Flame Retardant (halogen free)

Print Date: 2025–10–04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate	20	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)	2.3	%	ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	2900	MPa	ISO 527–1/–2
Yield stress	40	MPa	ISO 527–1/–2
Yield strain	2.6	%	ISO 527–1/–2
Nominal strain at break	5.5	%	ISO 527–1/–2
Flexural modulus	3000	MPa	ISO 178
Flexural strength	75	MPa	ISO 178
Flexural strain at flexural strength	5.2	%	ISO 178–A
Charpy impact strength (+23°C)	22	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	22	kJ/m²	ISO 179/1eU
Izod impact strength (+23°C)	18	kJ/m²	ISO 180/1U
Izod impact strength (–30°C)	18	kJ/m²	ISO 180–1U
THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	220	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	73	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	166	°C	ISO 75–1/–2

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Coeff. of linear therm. expansion (parallel)	1	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	1.1	E–4/°C	ISO 11359–1/–2
Burning Behav. at 0.75 mm nom. thickn.	V–0	class	IEC 60695–11–10
Thickness tested	0.75	mm	IEC 60695–11–10
Burning Behav. at 1.5 mm nom. thickn.	V–0	class	IEC 60695–11–10
Thickness tested	1.5	mm	IEC 60695–11–10
Burning Behav. at 3.0 mm nom. thickn.	V–0	class	IEC 60695–11–10
Thickness tested	3	mm	IEC 60695–11–10
Oxygen index	36	%	ISO 4589–1/–2
Glow Wire Flammability Index GWFI	960	°C	IEC 60695–2–12
GWFI (Thickness (1) tested)	0.4	mm	IEC 60695–2–12
Glow Wire Flammability Index GWFI	960	°C	IEC 60695–2–12
GWFI (Thickness (2) tested)	0.75	mm	IEC 60695–2–12
Glow Wire Ignition Temperature GWIT	750	°C	IEC 60695–2–13
GWIT (Thickness (1) tested)	0.4	mm	IEC 60695–2–13
Glow Wire Ignition Temperature GWIT	725	°C	IEC 60695–2–13
GWIT (Thickness (2) tested)	0.75	mm	IEC 60695–2–13
Glow Wire Ignition Temperature GWIT	725	°C	IEC 60695–2–13
GWIT (Thickness (3) tested)	1.5	mm	IEC 60695–2–13
Glow Wire Ignition Temperature GWIT	725	°C	IEC 60695–2–13
GWIT (Thickness (4) tested)	3	mm	IEC 60695–2–13

ELECTRICAL PROPERTIES	VALUE		
Relative permittivity (100Hz)	3.4	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.3	–	IEC 62631–2–1
Dissipation factor (100 Hz)	69	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	59	E–4	IEC 62631–2–1
Volume resistivity	>1E13	Ohm*m	IEC 62631–3–1
Surface resistivity	>1E15	Ohm	IEC 62631–3–2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Electric strength	31	kV/mm	IEC 60243–1
Comparative tracking index	600	V	IEC 60112
Comparative tracking index (PLC)	0	class	UL 746A

OTHER PROPERTIES	VALUE		
Density	1330	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)	250–265	°C	
Mold temperature	70–90	°C	
admissible residence time at Tmax	<5	min	

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