Property Data

Envalior
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Pocan® BF2505

PBT FR(17)

Injection Molding, Unreinforced, Flame Retardant

Print Date: 2024–12–10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Molding shrinkage (normal)	2.2	%	ISO 294–4
Molding shrinkage (parallel)	2.2	%	ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	3000	MPa	ISO 527–1/–2
Yield stress	50	MPa	ISO 527–1/–2
Yield strain	3	%	ISO 527–1/–2
Nominal strain at break	8	%	ISO 527–1/–2
Flexural modulus	3000	MPa	ISO 178
Flexural strength	90	MPa	ISO 178
Flexural strain at flexural strength	5.5	%	ISO 178–A
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
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
Glow Wire Flammability Index GWFI	960	°C	IEC 60695–2–12

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
GWFI (Thickness (1) tested)	0.75	mm	IEC 60695–2–12
Glow Wire Ignition Temperature GWIT	875	°C	IEC 60695–2–13
GWIT (Thickness (1) tested)	0.75	mm	IEC 60695–2–13

ELECTRICAL PROPERTIES	VALUE		
Comparative tracking index (PLC)	0	class	UL 746A

OTHER PROPERTIES	VALUE		
Density	1430	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)	240–260	°C	
Mold temperature	80–100	°C	

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