Property Data

Envalior
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Pocan® AF4110

(PBT+ASA)–GF12 FR(17)

12% Glass Fiber Reinforced, Injection Molding, Flame Retardant, Low Warpage

Print Date: 2026–01–15

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate (MVR)	35	cm³/10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage (normal)	0.8	%	ISO 294–4
Molding shrinkage (parallel)	0.9	%	ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	5800	MPa	ISO 527–1/–2
Stress at break	85	MPa	ISO 527–1/–2
Strain at break	2.5	%	ISO 527–1/–2
Flexural modulus	5500	MPa	ISO 178
Flexural strength	135	MPa	ISO 178
Flexural strain at flexural strength	2.8	%	ISO 178–A
Charpy impact strength (+23°C)	35	kJ/m²	ISO 179/1eU
Izod impact strength (+23°C)	30	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)	130	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	204	°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

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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
GWFI (Thickness (1) tested)	0.75	mm	IEC 60695–2–12
Glow Wire Flammability Index GWFI	960	°C	IEC 60695–2–12
GWFI (Thickness (2) tested)	1.5	mm	IEC 60695–2–12
Glow Wire Ignition Temperature GWIT	725	°C	IEC 60695–2–13
GWIT (Thickness (1) tested)	0.75	mm	IEC 60695–2–13
Glow Wire Ignition Temperature GWIT	700	°C	IEC 60695–2–13
GWIT (Thickness (2) tested)	1.5	mm	IEC 60695–2–13
Glow Wire Ignition Temperature GWIT	700	°C	IEC 60695–2–13
GWIT (Thickness (3) tested)	3	mm	IEC 60695–2–13

ELECTRICAL PROPERTIES	VALUE		
Comparative tracking index	250	V	IEC 60112
Comparative tracking index (PLC)	2	class	UL 746A

OTHER PROPERTIES	VALUE		
Density	1480	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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