Property Data

Envalior
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Pocan® BF4239

Arnite® TV4 260 SXF

PBT–GF30 FR(17)

30% Glass Fiber Reinforced, Flame Retardant

Print Date: 2026–04–09

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Molding shrinkage [normal]	1.4	%	Sim. to ISO 294–4
Molding shrinkage [parallel]	0.5	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	11000	MPa	ISO 527–1/–2
Stress at break	135	MPa	ISO 527–1/–2
Strain at break	2.3	%	ISO 527–1/–2
Charpy impact strength (+23°C)	50	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	7	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	225	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	210	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	220	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.35	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.7	E–4/°C	ISO 11359–1/–2
Burning Behav. at 0.4 mm nom. thickn.	V–0	class	IEC 60695–11–10
Thickness tested	0.4	mm	IEC 60695–11–10
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

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Thickness tested	3	mm	IEC 60695–11–10
Glow Wire Flammability Index GWFI	960	°C	IEC 60695–2–12
GWFI (Thickness (1) tested)	1.5	mm	IEC 60695–2–12
Glow Wire Flammability Index GWFI	960	°C	IEC 60695–2–12
GWFI (Thickness (2) tested)	0.4	mm	IEC 60695–2–12
Glow Wire Ignition Temperature GWIT	725	°C	IEC 60695–2–13
GWIT (Thickness (1) tested)	1.5	mm	IEC 60695–2–13
Glow Wire Ignition Temperature GWIT	750	°C	IEC 60695–2–13
GWIT (Thickness (2) tested)	1	mm	IEC 60695–2–13

ELECTRICAL PROPERTIES	VALUE		
Relative permittivity (100Hz)	4	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.8	–	IEC 62631–2–1
Dissipation factor (100 Hz)	25	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	140	E–4	IEC 62631–2–1
Volume resistivity	>1E13	Ohm*m	IEC 62631–3–1
Electric strength	28	kV/mm	IEC 60243–1
Comparative tracking index	275	V	IEC 60112
Comparative tracking index (PLC)	2	class	UL 746A

OTHER PROPERTIES	VALUE		
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1680	kg/m³	ISO 1183

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