Property Data

Envalior
Imagine the Future

Arnite® AV2 370 XT

PET–GF35

35% Glass Reinforced, Applications with extremely narrow tolerances

Print Date: 2024–03–27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Molding shrinkage [normal]	0.9	%	Sim. to ISO 294–4
Molding shrinkage [parallel]	0.45	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	13000	MPa	ISO 527–1/–2
Stress at break	185	MPa	ISO 527–1/–2
Strain at break	2.3	%	ISO 527–1/–2
Charpy impact strength (+23°C)	55	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	50	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8.5	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	8	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	255	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	222	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	250	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.25	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.4	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

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PROPERTIES	*TYPICAL DATA*	*UNIT*	*TEST METHOD*
Thickness tested	3	mm	IEC 60695–11–10
ELECTRICAL PROPERTIES	***VALUE***		
Relative permittivity (100Hz)	3.7	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.5	–	IEC 62631–2–1
Dissipation factor (100 Hz)	30	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	130	E–4	IEC 62631–2–1
Volume resistivity	>1E13	Ohm*m	IEC 62631–3–1
Electric strength	33	kV/mm	IEC 60243–1
Comparative tracking index	250	V	IEC 60112
OTHER PROPERTIES	***VALUE***		
Water absorption	0.45	%	Sim. to ISO 62
Humidity absorption	0.18	%	Sim. to ISO 62
Density	1660	kg/m³	ISO 1183

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