

Arnite[®] AV2 370 XL

PET–GF35

35% Glass Fiber Reinforced, Low Outgassing

Print Date: 2025–12–03

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES		VALUE	
Melt volume–flow rate	40	cm ³ /10min	ISO 1133
Temperature	290	°C	ISO 1133
Load	10	kg	ISO 1133
Molding shrinkage [normal]	1	%	Sim. to ISO 294–4
Molding shrinkage [parallel]	0.5	%	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	2.5	%	ISO 527–1/–2
Charpy impact strength (+23°C)	60	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	60	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	8	kJ/m ²	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)	225	°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

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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
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
Comparative tracking index (PLC)	2	class	UL 746A

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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