

Arnite[®] AV2 360 S

PET–GF33 FR(17)

33% Glass Reinforced, Flame Retardant

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	VALUE		
Molding shrinkage (normal)	1	%	ISO 294–4
Molding shrinkage (parallel)	0.5	%	ISO 294–4
MECHANICAL PROPERTIES	VALUE		
Tensile modulus	13000	MPa	ISO 527–1/–2
Stress at break	160	MPa	ISO 527–1/–2
Strain at break	2	%	ISO 527–1/–2
Charpy impact strength (+23°C)	35	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	35	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8	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)	220	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	240	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.2	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.65	E–4/°C	ISO 11359–1/–2
Burning Behav. at 0.75 mm nom. thickn.	V–2	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

Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Thickness tested	3	mm	IEC 60695-11-10
Oxygen index	36	%	ISO 4589-1/-2
ELECTRICAL PROPERTIES	VALUE		
Relative permittivity (100Hz)	3.7	—	IEC 62631-2-1
Relative permittivity (1 MHz)	3.4	—	IEC 62631-2-1
Dissipation factor (100 Hz)	10	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	120	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	29	kV/mm	IEC 60243-1
Comparative tracking index	225	V	IEC 60112
OTHER PROPERTIES	VALUE		
Water absorption	0.4	%	Sim. to ISO 62
Humidity absorption	0.12	%	Sim. to ISO 62
Density	1730	kg/m³	ISO 1183