

Arnite[®] AV2 360 S

PET-GF33 FR(17)

33% Glass Reinforced, Flame Retardant

Print Date: 2024-04-23

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/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	35	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8	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)	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

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Thickness tested	3	mm	IEC 60695-11-10
Oxygen index	36	%	ISO 4589-1/-2

<i>ELECTRICAL PROPERTIES</i>	<i>VALUE</i>		
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

<i>OTHER PROPERTIES</i>	<i>VALUE</i>		
Water absorption	0.4	%	Sim. to ISO 62
Humidity absorption	0.12	%	Sim. to ISO 62
Density	1730	kg/m ³	ISO 1183

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