

## Arnite® TV4 230 S

## PBT-GF15 FR(17)

15% Glass Reinforced, Flame Retardant

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Properties	Typical Data	Unit	Test Method
<b>Mechanical properties</b>			
Tensile modulus	7000	MPa	ISO 527-1/-2
Stress at break	100	MPa	ISO 527-1/-2
Strain at break	2.5	%	ISO 527-1/-2
Charpy impact strength (+23 °C)	30	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23 °C)	6	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
Melting temperature (10 °C/min)	225	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	200	°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)	0.5	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.8	E-4/°C	ISO 11359-1/-2
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 thickness h	V-2	class	IEC 60695-11-10
Thickness tested	0.75	mm	IEC 60695-11-10
<b>Electrical properties</b>			
Relative permittivity (100Hz)	3.1	-	IEC 60250
Relative permittivity (1 MHz)	3.2	-	IEC 60250
Dissipation factor (100 Hz)	10	E-4	IEC 60250
Dissipation factor (1 MHz)	130	E-4	IEC 60250

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Properties	Typical Data	Unit	Test Method
Volume resistivity	>1E13	Ohm*m	IEC 60093
<b>Other properties</b>			
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1540	kg/m <sup>3</sup>	ISO 1183