

# Arnite<sup>®</sup> TV4 261 SF

## PBT-GF30 FR(17)

30% Glass Reinforced, Flame Retardant, High Flow

Print Date: 2024-10-15

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	VALUE		
Molding shrinkage [normal]	1.45	%	Sim. to ISO 294-4
Molding shrinkage [parallel]	0.5	%	Sim. to ISO 294-4
<b>MECHANICAL PROPERTIES</b>			
	VALUE		
Tensile modulus	11000	MPa	ISO 527-1/-2
Stress at break	130	MPa	ISO 527-1/-2
Strain at break	2.5	%	ISO 527-1/-2
Flexural modulus	10500	MPa	ISO 178
Flexural strength	200	MPa	ISO 178
Charpy impact strength (+23°C)	50	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	40	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	8	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	8	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	VALUE		
Melting temperature (10°C/min)	225	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	210	°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)	0.35	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.7	E-4/°C	ISO 11359-1/-2
Burning Behav. at 0.75 mm nom. thickn.	V-0	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

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## Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Thickness tested	1.5	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	3	mm	IEC 60695-11-10
Glow Wire Flammability Index GWFI	960	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	1.5	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	960	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	0.75	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	700	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	1.5	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	725	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	0.75	mm	IEC 60695-2-13

## ELECTRICAL PROPERTIES

### VALUE

Relative permittivity (100Hz)	4	–	IEC 62631-2-1
Relative permittivity (1 MHz)	3.8	–	IEC 62631-2-1
Dissipation factor (100 Hz)	25	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	140	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	28	kV/mm	IEC 60243-1
Comparative tracking index	300	V	IEC 60112
Comparative tracking index (PLC)	2	class	UL 746A

## OTHER PROPERTIES

### VALUE

Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1650	kg/m <sup>3</sup>	ISO 1183

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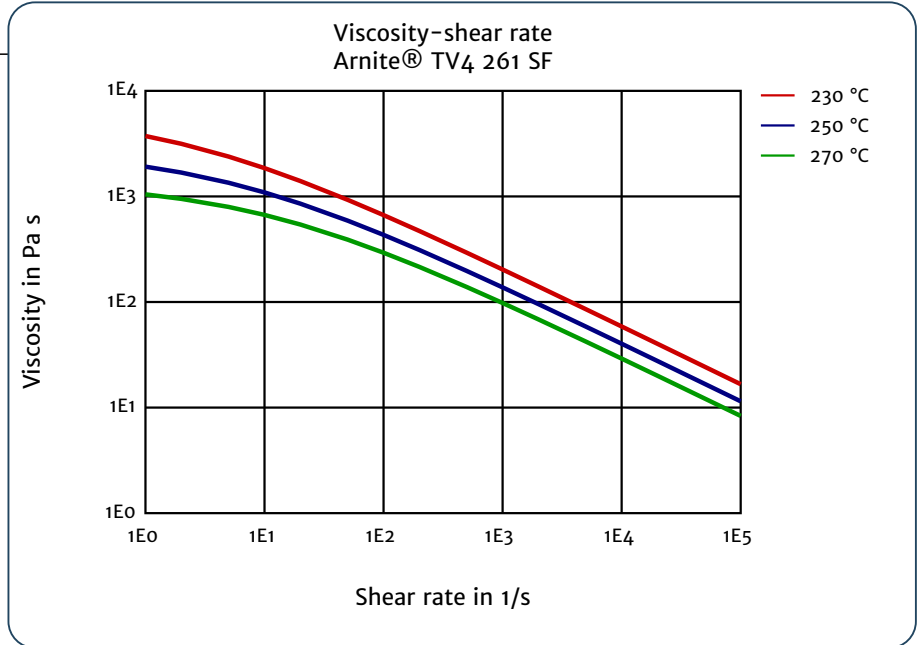
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## Viscosity–shear rate



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