

# Arnite<sup>®</sup> TV4 261

## PBT–GF30

30% Glass Reinforced

Print Date: 2024–06–20

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	VALUE		
Melt volume–flow rate	18	cm <sup>3</sup> /10min	ISO 1133
Temperature	250	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage [normal]	1.2	%	Sim. to ISO 294–4
Molding shrinkage [parallel]	0.33	%	Sim. to ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	VALUE		
Tensile modulus	9750	MPa	ISO 527–1/–2
Stress at break	145	MPa	ISO 527–1/–2
Strain at break	2.8	%	ISO 527–1/–2
Flexural modulus	9000	MPa	ISO 178
Flexural strength	210	MPa	ISO 178
Charpy impact strength (+23°C)	56	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	50	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	9.5	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	9.5	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)	205	°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

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## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Burning Behav. at 0.75 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	0.75	mm	IEC 60695-11-10
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
Oxygen index	20	%	ISO 4589-1/-2

### *ELECTRICAL PROPERTIES*

#### *VALUE*

Relative permittivity (100Hz)	3.9	–	IEC 62631-2-1
Relative permittivity (1 MHz)	3.7	–	IEC 62631-2-1
Dissipation factor (100 Hz)	25	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	170	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	30	kV/mm	IEC 60243-1
Comparative tracking index	400	V	IEC 60112
Comparative tracking index (PLC)	1	class	UL 746A

### *OTHER PROPERTIES*

#### *VALUE*

Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1510	kg/m <sup>3</sup>	ISO 1183

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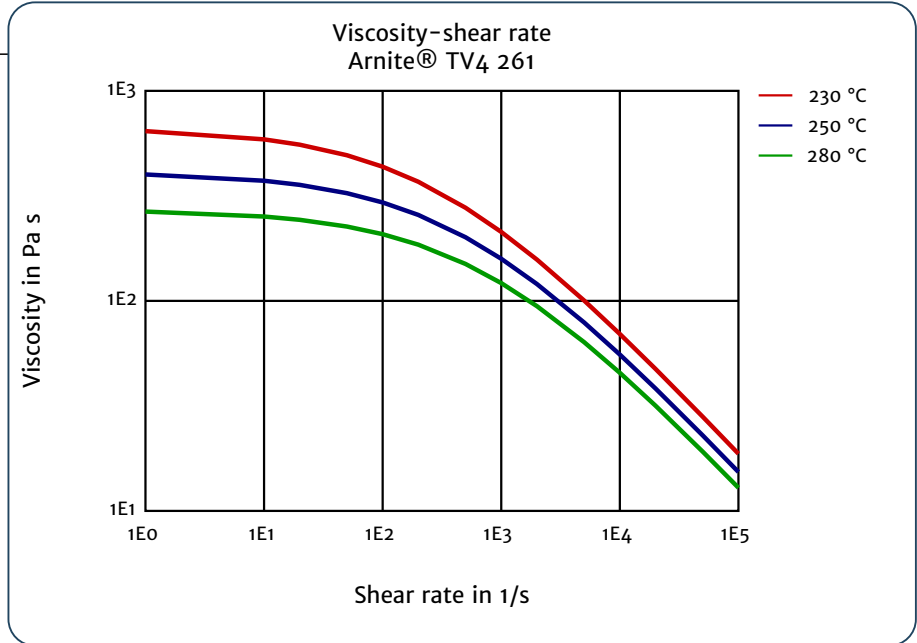
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## Viscosity-shear rate



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