

**Arnite® TV4 270**

PBT-GF35

DSM Engineering Plastics

**Product Texts**

35% Glass Reinforced

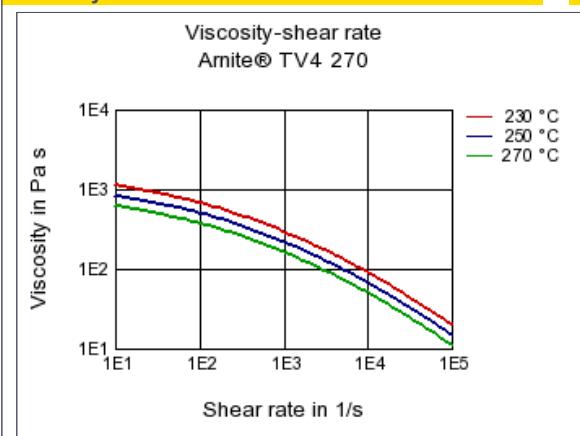
ISO 1043 PBT-GF35

[Arnite website](#)

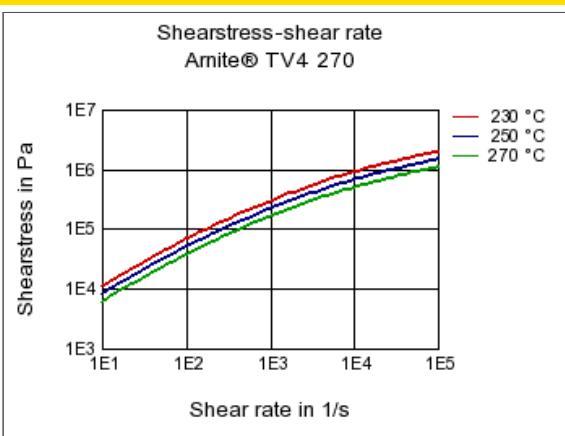
<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	11500	MPa	ISO 527-1/-2
Stress at break	145	MPa	ISO 527-1/-2
Strain at break	2.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	65	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	65	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	13	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	13	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
<b>ISO Data</b>			
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	30	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	70	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
UL recognition	UL	-	-
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.0	mm	IEC 60695-11-10
UL recognition	UL	-	-
<b>Electrical properties</b>			
<b>ISO Data</b>			
Volume resistivity	>1E13	Ohm*m	IEC 60093
Electric strength	30	kV/mm	IEC 60243-1
Comparative tracking index	475	-	IEC 60112
<b>Other properties</b>			
<b>ISO Data</b>			
Water absorption	0.25	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1570	kg/m <sup>3</sup>	ISO 1183
<b>Rheological calculation properties</b>			
<b>ISO Data</b>			
Density of melt	1260	kg/m <sup>3</sup>	-
Thermal conductivity of melt	0.197	W/(m K)	-
Spec. heat capacity of melt	1740	J/(kg K)	-
Eff. thermal diffusivity	9.01E-8	m <sup>2</sup> /s	-

## Diagrams

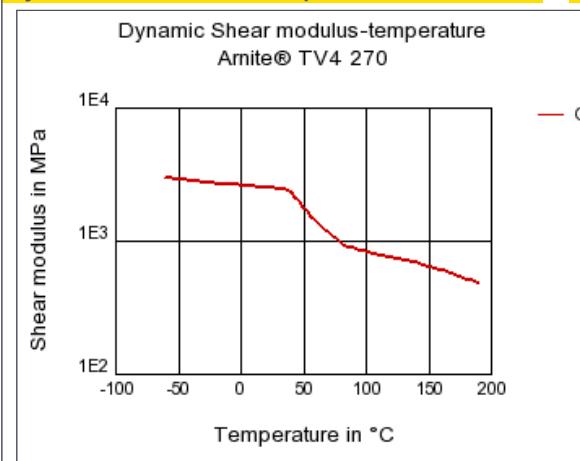
## Viscosity-shear rate



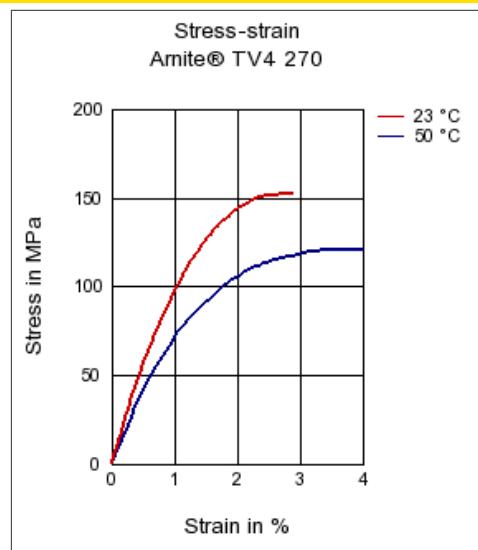
## Shearstress-shear rate



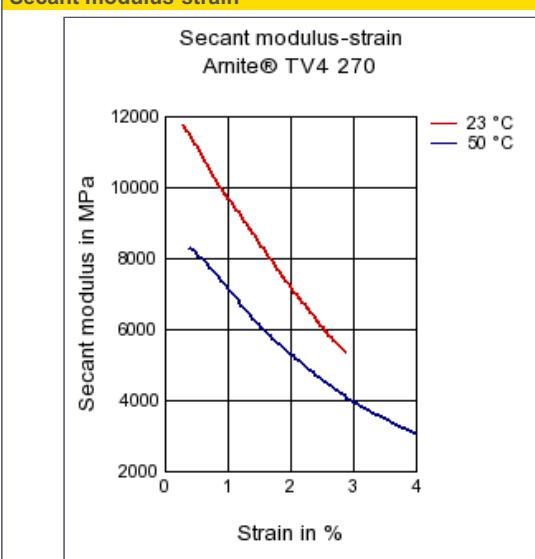
## Dynamic Shear modulus-temperature



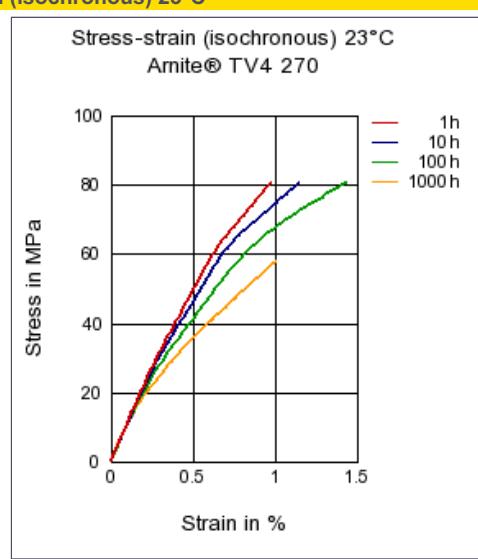
## Stress-strain



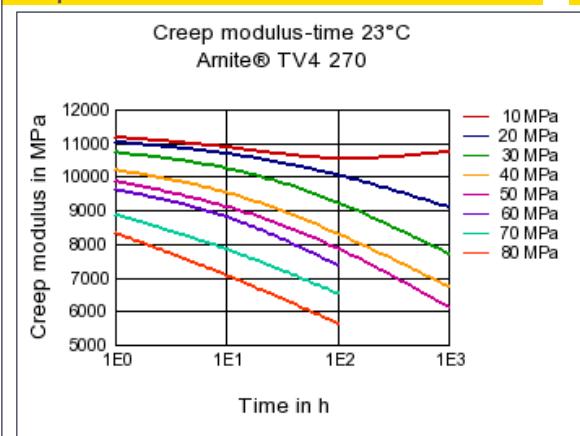
## Secant modulus-strain



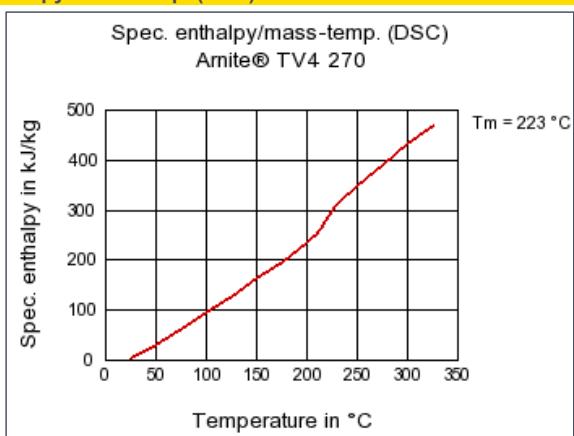
## Stress-strain (isochronous) 23°C



## Creep modulus-time 23°C



## Spec. enthalpy/mass-temp. (DSC)



## Characteristics

## Processing

Injection Molding

## Additives

Release agent

## Delivery form

Pellets

## Other text information

## Injection Molding

[Injection Molding Recommendations](#)