


**Arnite® TV4 260 S**

PBT-GF30 FR(17)

DSM Engineering Plastics

**Product Texts**

30% Glass Reinforced, Flame Retardant

ISO 1043 PBT-GF30 FR(17)

[Arnite website](#)

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	11500	MPa	ISO 527-1/-2
Stress at break	130	MPa	ISO 527-1/-2
Strain at break	2	%	ISO 527-1/-2
Charpy impact strength (+23°C)	55	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	55	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	10	kJ/m²	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	35	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.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
UL recognition	UL	-	-
Burning behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	0.5	mm	IEC 60695-11-10
UL recognition	UL	-	-
Oxygen index	36	%	ISO 4589-1/-2
<b>Electrical properties</b>			
<b>ISO Data</b>			
Relative permittivity, 100Hz	4.1	-	IEC 60250
Relative permittivity, 1MHz	3.9	-	IEC 60250
Dissipation factor, 100Hz	20	E-4	IEC 60250
Dissipation factor, 1MHz	150	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Electric strength	28	kV/mm	IEC 60243-1
Comparative tracking index	250	-	IEC 60112
<b>Other properties</b>			
<b>ISO Data</b>			
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1690	kg/m³	ISO 1183
<b>Rheological calculation properties</b>			
<b>ISO Data</b>			
Density of melt	1440	kg/m³	-
Thermal conductivity of melt	0.153	W/(m K)	-
Spec. heat capacity of melt	1740	J/(kg K)	-

Eff. thermal diffusivity

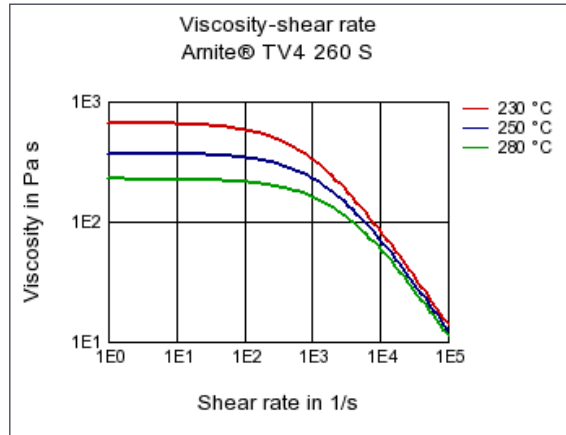
6.12E-8

m²/s

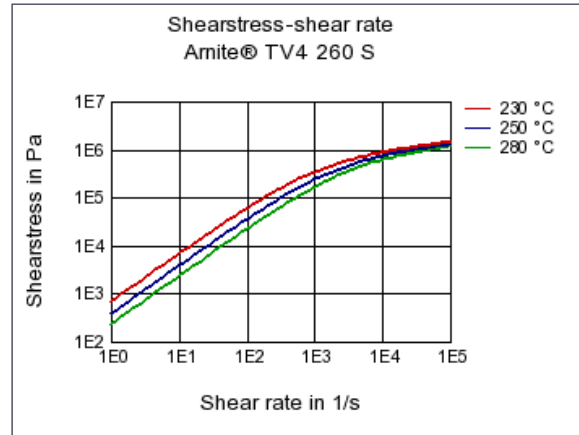
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## Diagrams

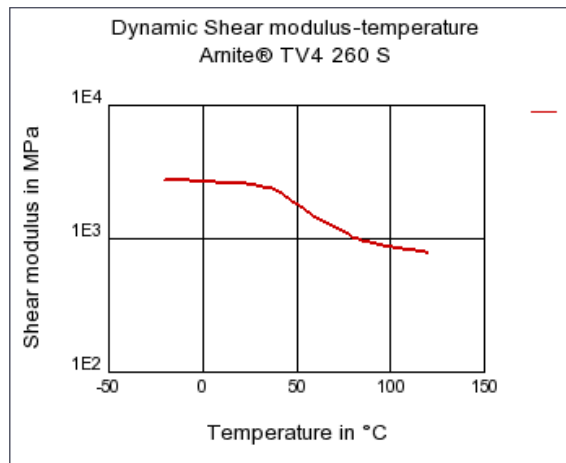
### Viscosity-shear rate



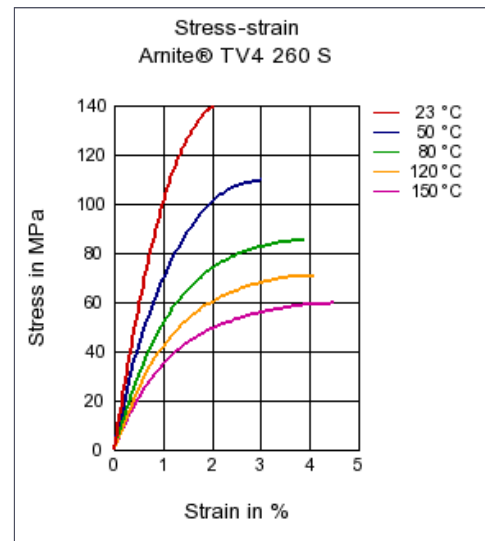
### Shearstress-shear rate



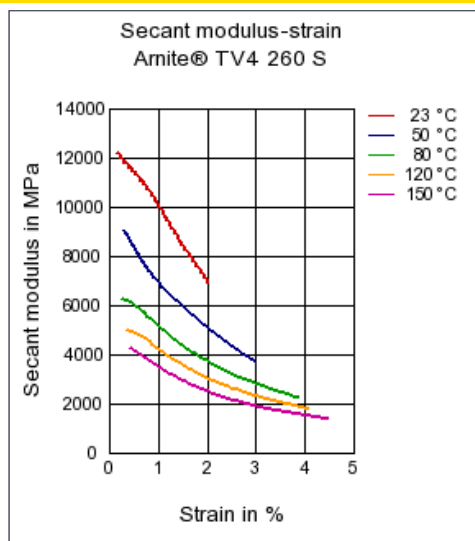
### Dynamic Shear modulus-temperature



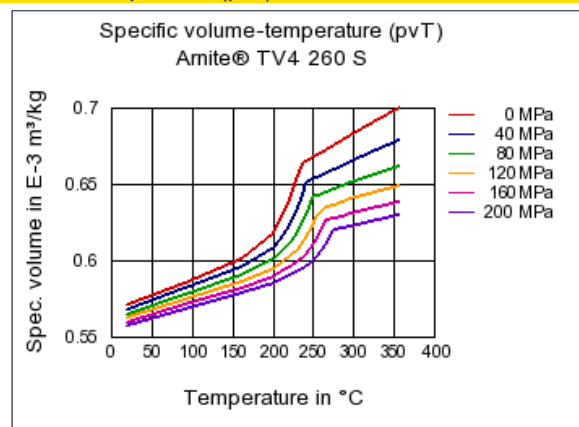
### Stress-strain



### Secant modulus-strain



### Specific volume-temperature (pvT)



<b>Arnite® TV4 260 S</b> PBT-GF30 FR(17)		DSM Engineering Plastics
<b>Characteristics</b>		
<b>Processing</b>		<b>Additives</b>
Injection Molding		Release agent
<b>Delivery form</b>		<b>Special Characteristics</b>
Pellets		Flame retardant
<b>Other text information</b>		
<b>Injection Molding</b>		
<a href="#">Injection Molding Recommendations</a>		