


**Arnite® TV4 460 KL**

(PBT+PET)-GF30

DSM Engineering Plastics

**Product Texts**

30% Glass Reinforced, Heat Stabilized, UV Stabilized

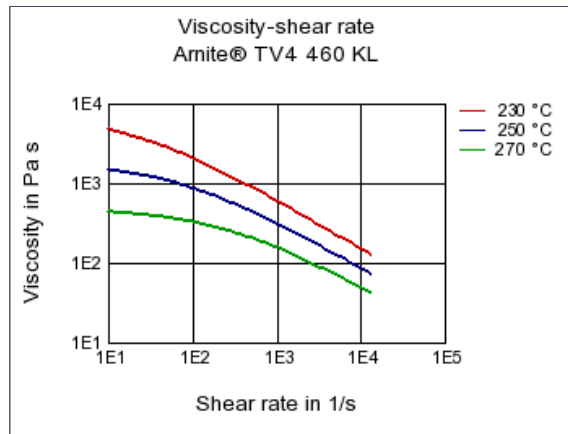
ISO 1043 (PBT+PET)-GF30

[Arnite website](#)

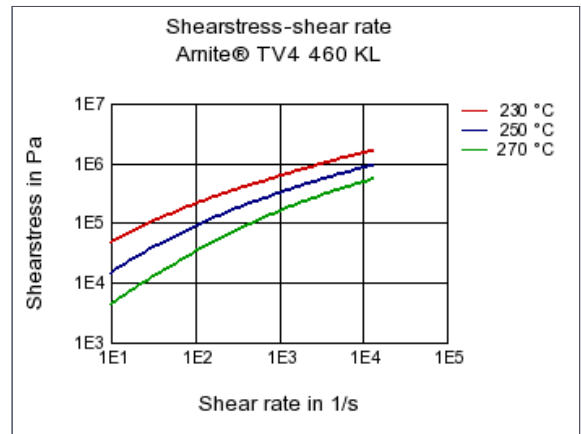
Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	10500	MPa	ISO 527-1/-2
Stress at break	145	MPa	ISO 527-1/-2
Strain at break	2	%	ISO 527-1/-2
Charpy impact strength (+23°C)	50	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	50	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	11	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	11	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
<b>ISO Data</b>			
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	20	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	90	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.6	mm	IEC 60695-11-10
<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	180	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Electric strength	26	kV/mm	IEC 60243-1
Comparative tracking index	250	-	IEC 60112
<b>Other properties</b>			
<b>ISO Data</b>			
Water absorption	0.35	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1550	kg/m <sup>3</sup>	ISO 1183
<b>Rheological calculation properties</b>			
<b>ISO Data</b>			
Density of melt	1360	kg/m <sup>3</sup>	-
Thermal conductivity of melt	0.261	W/(m K)	-
Spec. heat capacity of melt	1850	J/(kg K)	-
Eff. thermal diffusivity	1.04E-7	m <sup>2</sup> /s	-

**Diagrams**

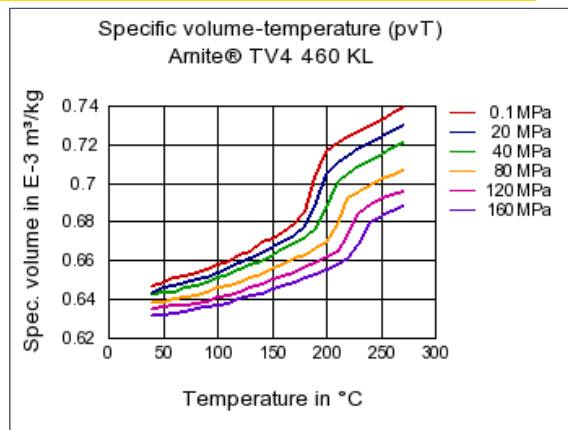
**Viscosity-shear rate**



**Shearstress-shear rate**



**Specific volume-temperature (pvT)**



**Characteristics**

**Processing**

Injection Molding

**Additives**

Release agent

**Delivery form**

Pellets

**Special Characteristics**

Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

**Other text information**

**Injection Molding**

[Injection Molding Recommendations](#)