


**Arnite® TV4 230**
**PBT-GF15**

DSM Engineering Plastics

**Product Texts**

15% Glass Reinforced

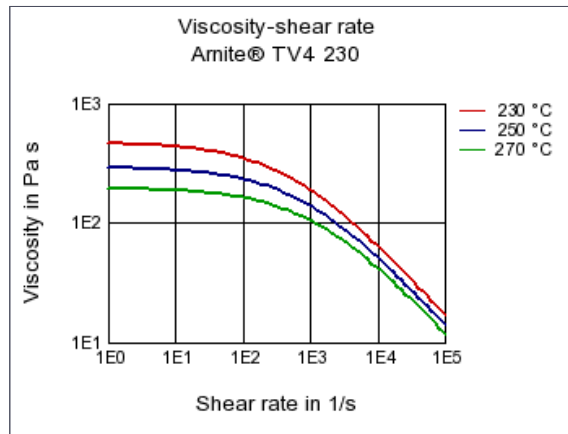
ISO 1043 PBT-GF15

[Arnite website](#)

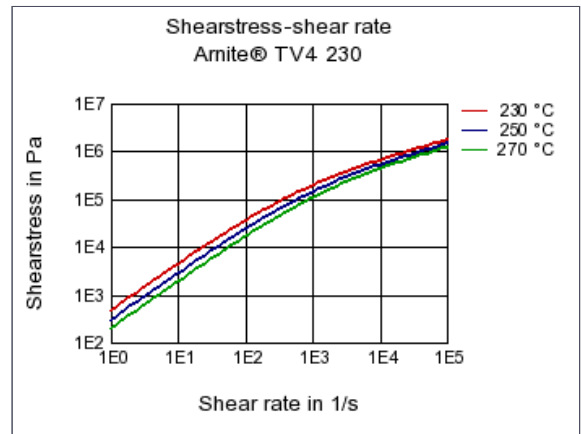
Rheological properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	27	cm³/10min	ISO 1133
Temperature	250	°C	ISO 1133
Load	2.16	kg	ISO 1133
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	6000	MPa	ISO 527-1/-2
Stress at break	100	MPa	ISO 527-1/-2
Strain at break	3	%	ISO 527-1/-2
Charpy impact strength (+23°C)	25	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	25	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	6	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)	195	°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	50	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	80	E-6/K	ISO 11359-1/-2
<b>Electrical properties</b>			
<b>ISO Data</b>			
Relative permittivity, 100Hz	3.6	-	IEC 60250
Relative permittivity, 1MHz	3.4	-	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
Comparative tracking index	400	-	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	1410	kg/m³	ISO 1183

**Diagrams**

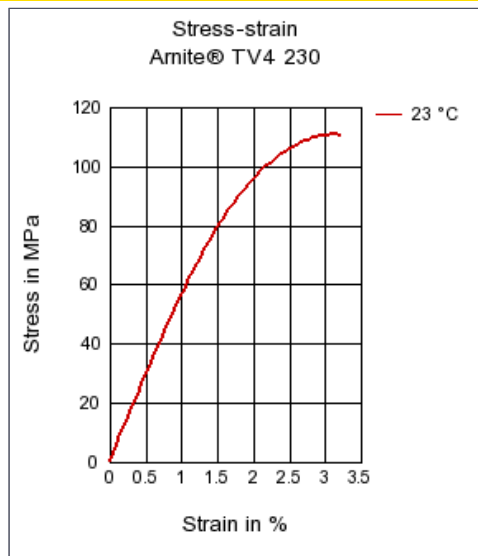
**Viscosity-shear rate**



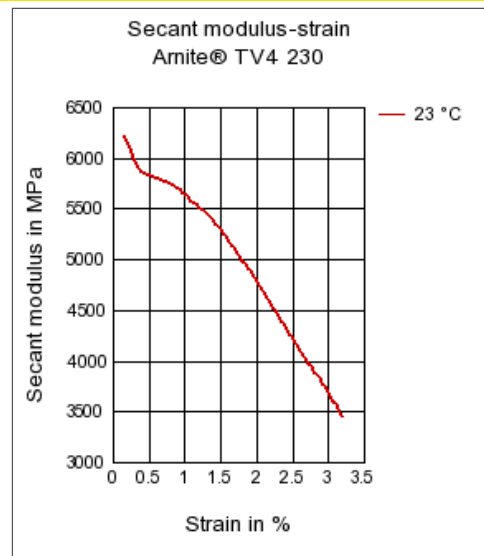
**Shearstress-shear rate**



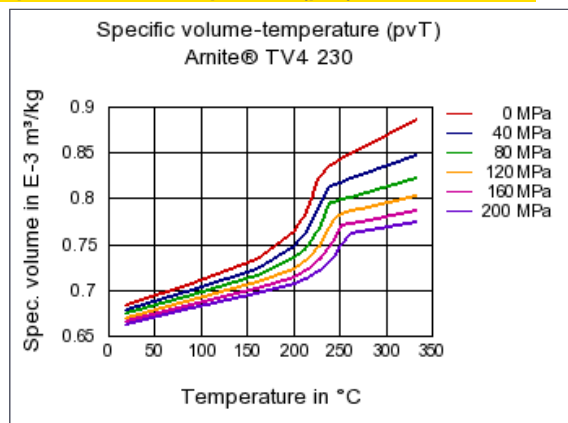
**Stress-strain**



**Secant modulus-strain**



**Specific volume-temperature (pvT)**



**Characteristics**

**Processing**

Injection Molding

**Additives**

Release agent

<b>Arnite® TV4 230</b> PBT-GF15		DSM Engineering Plastics
<b>Delivery form</b>		
Pellets		
<b>Other text information</b>		
<b>Injection Molding</b>		
<a href="#">Injection Molding Recommendations</a>		
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