Arnite® TV4 461

(PBT+PET)-GF30 DSM Engineering Plastics

Product Texts

30% Glass Reinforced

ISO 1043 (PBT+PET)-GF30

Arnite website

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	9900	MPa	ISO 527-1/-2
Stress at break	130	MPa	ISO 527-1/-2
Strain at break	2.4	%	ISO 527-1/-2
Charpy impact strength (+23°C)	45	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	45	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	9	kJ/m²	ISO 179/1eA

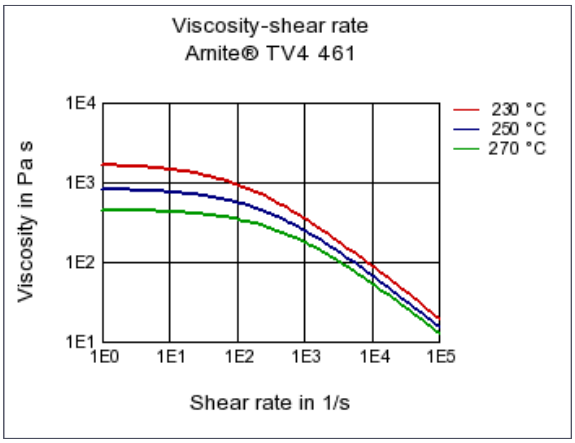
Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	205	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	225	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	40	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	60	E-6/K	ISO 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

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	4.1	-	IEC 60250
Relative permittivity, 1MHz	3.9	-	IEC 60250
Dissipation factor, 100Hz	15	E-4	IEC 60250
Dissipation factor, 1MHz	160	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Comparative tracking index	275	-	IEC 60112

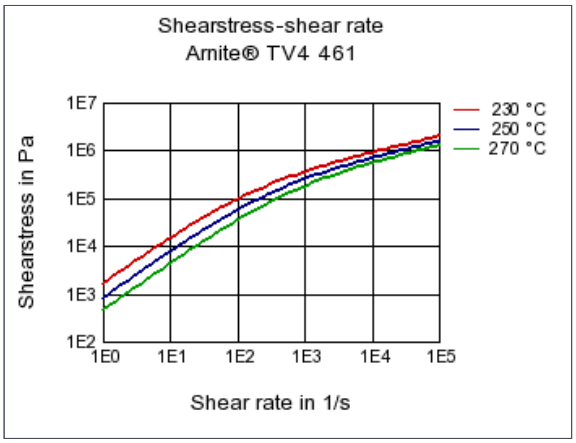
Other properties	Value	Unit	Test Standard
ISO Data			
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1550	kg/m³	ISO 1183

Diagrams

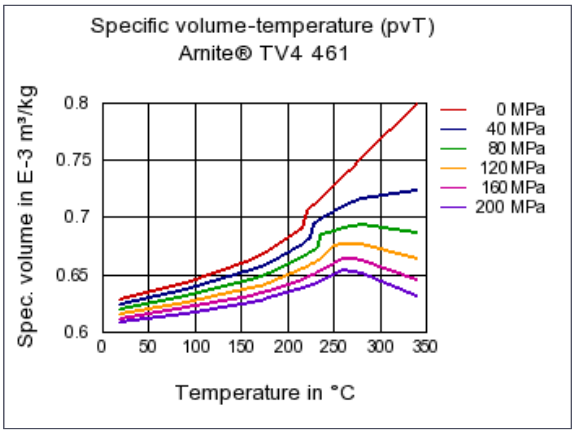
Viscosity-shear rate



Shearstress-shear rate



Specific volume-temperature (pvT)



Characteristics

Processing
Injection Molding

Additives
Release agent

Delivery form
Pellets

Other text information

Injection Molding
Injection Molding Recommendations