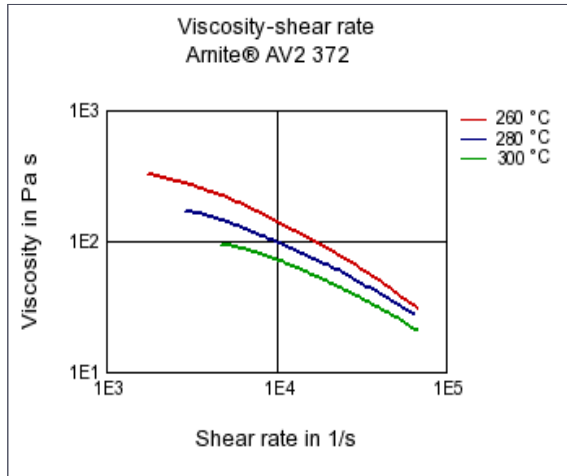




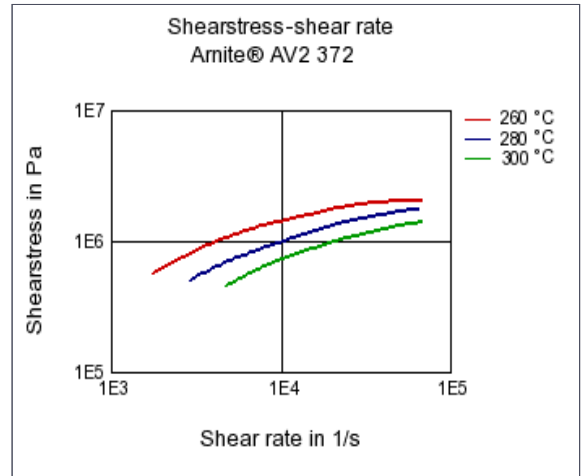
Arnite® AV2 372			
PET-GF35			Envalior
Product Texts			
35% Glass Reinforced			
ISO 1043 PET-GF35			
Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	13000	MPa	ISO 527
Stress at break	190	MPa	ISO 527
Strain at break	2.5	%	ISO 527
Charpy impact strength, +23 °C	50	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30 °C	50	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23 °C	10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30 °C	10	kJ/m ²	ISO 179/1eA
Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10 °C/min	255	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	235	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	250	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	25	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	40	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	-
Yellow Card available	yes	-	-
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
Yellow Card available	yes	-	-
Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	3.3	-	IEC 62631-2-1
Relative permittivity, 1MHz	3.1	-	IEC 62631-2-1
Dissipation factor, 100Hz	30	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	130	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	34	kV/mm	IEC 60243-1
Comparative tracking index	250	-	IEC 60112
Other properties	Value	Unit	Test Standard
ISO Data			
Water absorption	0.45	%	Sim. to ISO 62
Humidity absorption	0.18	%	Sim. to ISO 62
Density	1630	kg/m ³	ISO 1183
Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Density of melt	1350	kg/m ³	-
Thermal conductivity of melt	0.195	W/(m K)	-
Spec. heat capacity of melt	1670	J/(kg K)	-
Eff. thermal diffusivity	8.67E-8	m ² /s	-

Diagrams

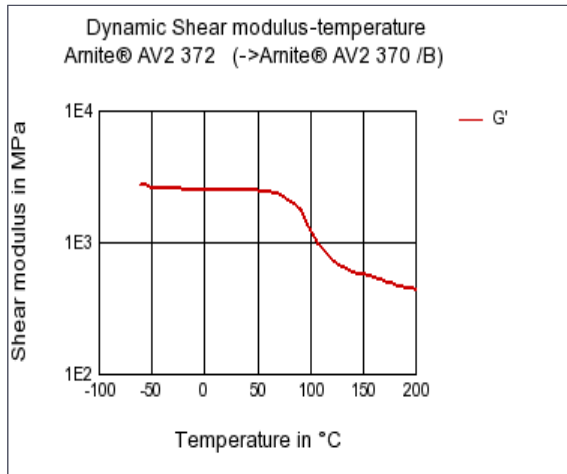
Viscosity-shear rate



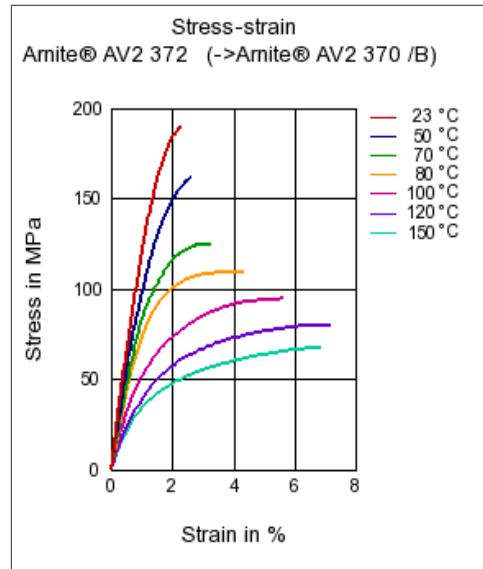
Shearstress-shear rate



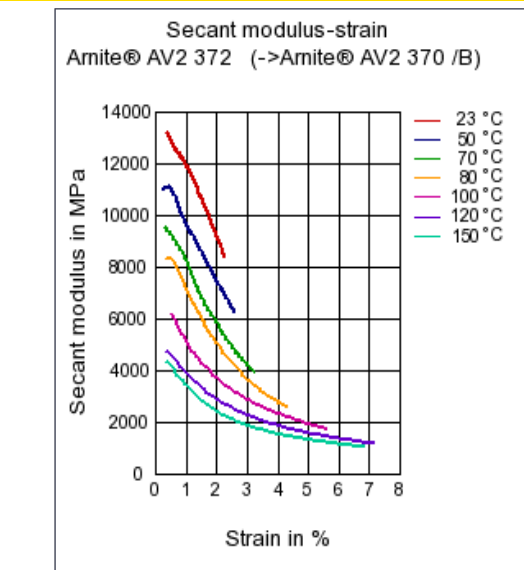
Dynamic Shear modulus-temperature



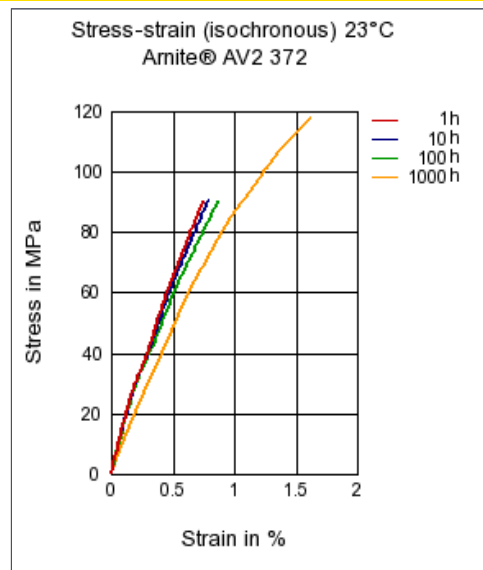
Stress-strain



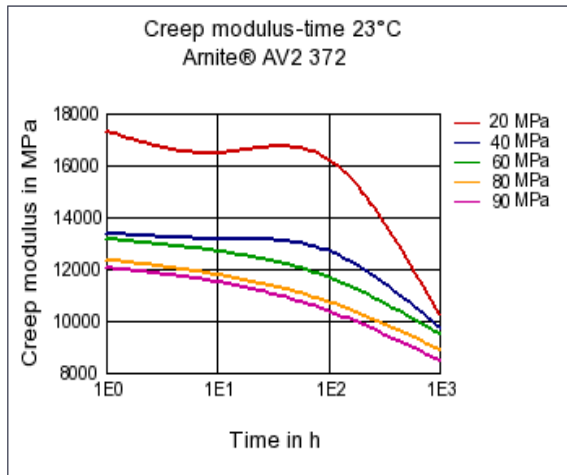
Secant modulus-strain



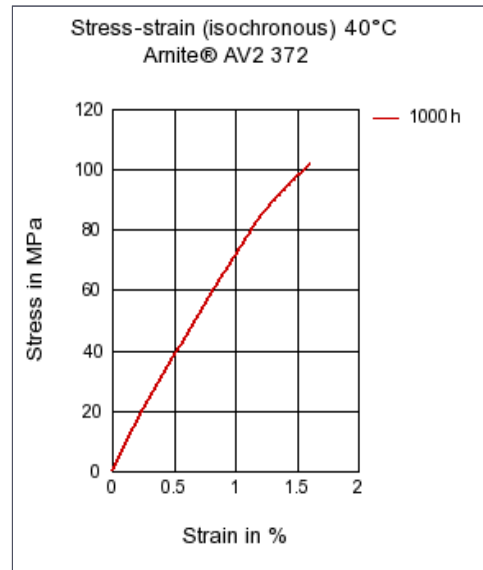
Stress-strain (isochronous) 23 °C



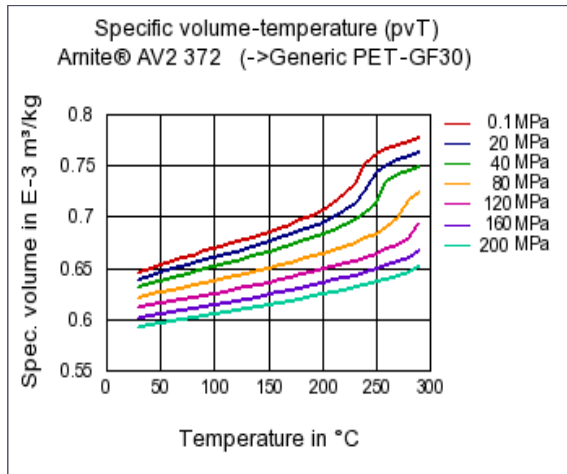
Creep modulus-time 23 °C



Stress-strain (isochronous) 40 °C



Specific volume-temperature (pvT)



Characteristics

Processing

Injection Molding

Additives

Release agent

Delivery form

Pellets

Other text information

Injection Molding

- [Injection Molding Recommendations](#)
- [Steel recommendations for molds screws and barrels](#)
- [Supporting document for Stanyl quality processing](#)

Chemical Media Resistance

Alcohols

- ☺ Methanol (23 °C)
- ☺ Ethanol (23 °C)

Hydrocarbons

- ☺ Toluene (23 °C)

Ketones

☺ Acetone (23°C)

Ethers

☺ Diethyl ether (23°C)

Other

☺ Water (23°C)