Arnite® AV2 370 HF

PET-GF35 DSM Engineering Plastics

Product Texts

35% Glass Reinforced, Brake Booster Body Valves, High Flow

ISO 1043 PET-GF35

Arnite website

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	13000	MPa	ISO 527-1/-2
Stress at break	200	MPa	ISO 527-1/-2
Strain at break	2.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	60	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	60	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	11	kJ/m²	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	IEC 60695-11-10
UL recognition	UL	-	-
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	IEC 60695-11-10
UL recognition	UL	-	-

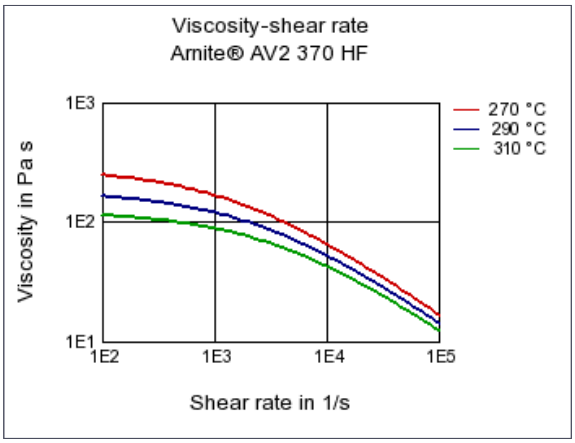
Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	3.7	-	IEC 60250
Relative permittivity, 1MHz	3.5	-	IEC 60250
Dissipation factor, 100Hz	30	E-4	IEC 60250
Dissipation factor, 1MHz	130	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Electric strength	33	kV/mm	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/m³	ISO 1183

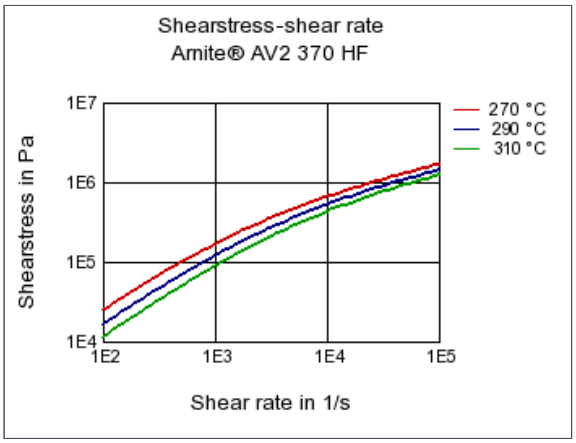
Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Density of melt	1350	kg/m³	-
Thermal conductivity of melt	0.195	W/(m K)	-
Spec. heat capacity of melt	1670	J/(kg K)	-
Eff. thermal diffusivity	8.67E-8	m²/s	-

Diagrams

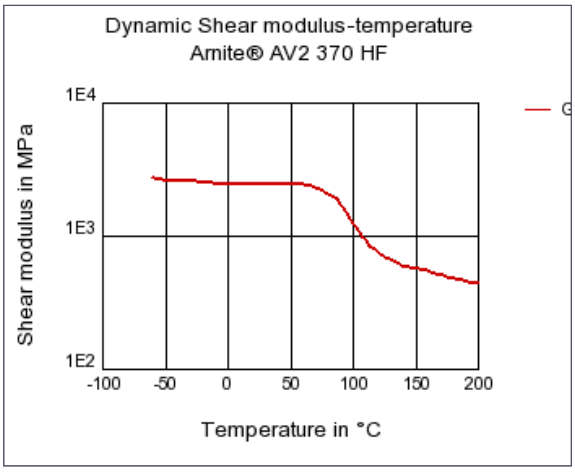
Viscosity-shear rate



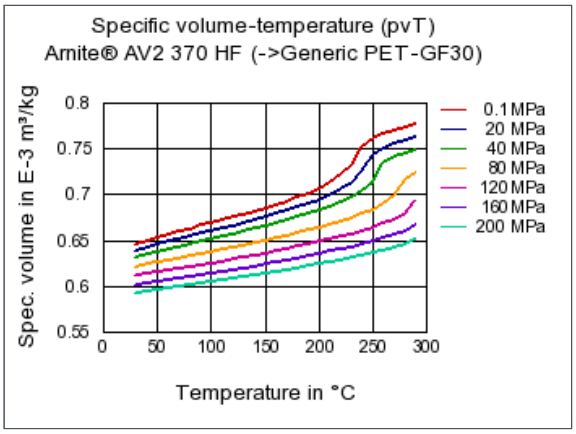
Shearstress-shear rate



Dynamic Shear modulus-temperature



Specific volume-temperature (pvT)



Characteristics

Processing

Injection Molding

Additives

Release agent

Delivery form

Pellets

Other text information

Injection Molding

Injection Molding Recommendations