



Arnite® T06 200 (extrusion)						
PBT	DSM Engineering Plastics					
Product Texts						
Low Viscosity, Injection Molding, Extrusion						
ISO 1043 PBT						
Arnite website						
Rheological properties	Value	Unit	Test Standard			
ISO Data						
Melt volume-flow rate, MVR	22	cm ³ /10min	ISO 1133			
Temperature	250	°C	ISO 1133			
Load	2.16	kg	ISO 1133			
Mechanical properties	Value	Unit	Test Standard			
ISO Data						
Tensile Modulus	2700	MPa	ISO 527-1/-2			
Yield stress	55	MPa	ISO 527-1/-2			
Yield strain	3.5	%	ISO 527-1/-2			
Nominal strain at break	>50	%	ISO 527-1/-2			
Charpy impact strength (+23°C)	N	kJ/m ²	ISO 179/1eU			
Charpy impact strength, -30°C	N	kJ/m ²	ISO 179/1eU			
Charpy notched impact strength (+23°C)	5	kJ/m ²	ISO 179/1eA			
Charpy notched impact strength, -30°C	5	kJ/m ²	ISO 179/1eA			
Thermal properties	Value	Unit	Test Standard			
ISO Data						
Melting temperature (10°C/min)	225	°C	ISO 11357-1/-3			
Temp. of deflection under load (1.80 MPa)	55	°C	ISO 75-1/-2			
Temp. of deflection under load (0.45 MPa)	165	°C	ISO 75-1/-2			
Coeff. of linear therm. expansion, parallel	90	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	1.5	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	3.5	-	IEC 60250			
Relative permittivity, 1MHz	3.2	-	IEC 60250			
Dissipation factor, 100Hz	20	E-4	IEC 60250			
Dissipation factor, 1MHz	200	E-4	IEC 60250			
Volume resistivity	>1E13	Ohm*m	IEC 60093			
Electric strength	27	kV/mm	IEC 60243-1			
Comparative tracking index	600	-	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	1300	kg/m ³	ISO 1183			

Arnite® T06 200 (extrusion)

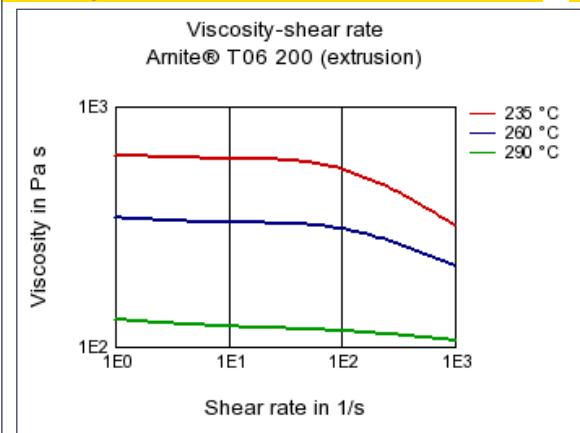
PBT

DSM Engineering Plastics

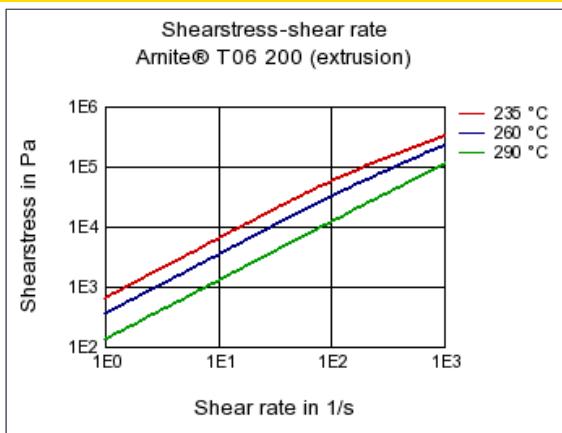
Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Density of melt	1040	kg/m ³	-
Thermal conductivity of melt	0.109	W/(m K)	-
Spec. heat capacity of melt	2260	J/(kg K)	-
Eff. thermal diffusivity	4.65E-8	m ² /s	-

Diagrams

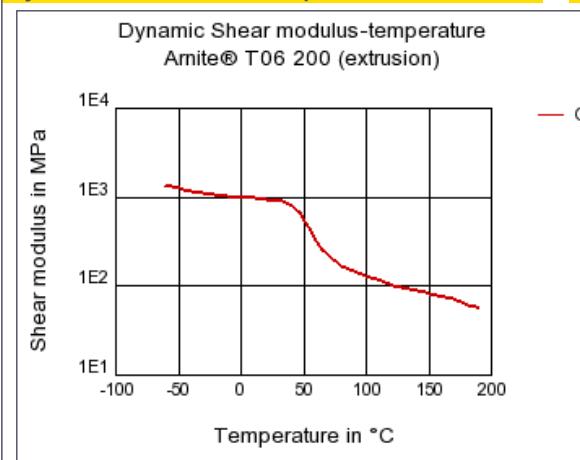
Viscosity-shear rate



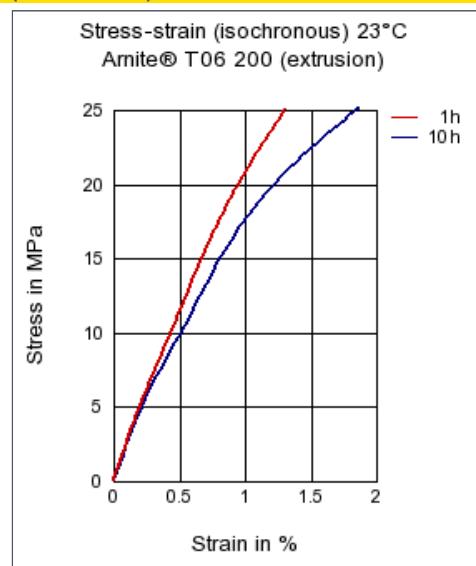
Shearstress-shear rate



Dynamic Shear modulus-temperature



Stress-strain (isochronous) 23°C

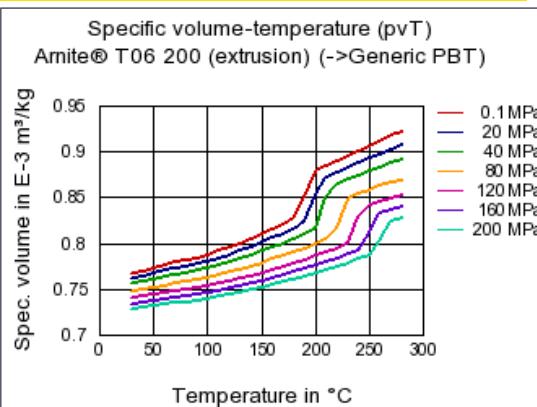


Arnite® T06 200 (extrusion)

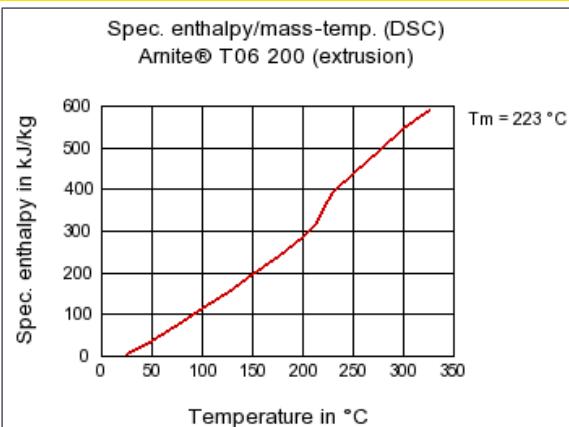
PBT

DSM Engineering Plastics

Specific volume-temperature (pvT)



Spec. enthalpy/mass-temp. (DSC)



Characteristics

Processing

Injection Molding, Other Extrusion

Delivery form

Pellets

Other text information

Injection Molding

[Injection Molding Recommendations](#)

Film extrusion

[Extrusion Guideline for Arnite T-grades](#)