

<b>Arnite® T08 200 (extrusion)</b>						
PBT	DSM Engineering Plastics					
<b>Product Texts</b>						
High Viscosity, Injection Molding, Extrusion						
ISO 1043 PBT						
<a href="#">Arnite website</a>						
<b>Rheological properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>			
<b>ISO Data</b>						
Melt volume-flow rate, MVR	10	cm <sup>3</sup> /10min	ISO 1133			
Temperature	250	°C	ISO 1133			
Load	2.16	kg	ISO 1133			
<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>			
<b>ISO Data</b>						
Tensile Modulus	2800	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 <sup>2</sup>	ISO 179/1eU			
Charpy impact strength, -30°C	N	kJ/m <sup>2</sup>	ISO 179/1eU			
Charpy notched impact strength (+23°C)	6	kJ/m <sup>2</sup>	ISO 179/1eA			
Charpy notched impact strength, -30°C	6	kJ/m <sup>2</sup>	ISO 179/1eA			
<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>			
<b>ISO Data</b>						
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)	170	°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	-	-			
<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>			
<b>ISO Data</b>						
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			
<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>			
<b>ISO Data</b>						
Water absorption	0.45	%	Sim. to ISO 62			
Humidity absorption	0.18	%	Sim. to ISO 62			
Density	1300	kg/m <sup>3</sup>	ISO 1183			

## Arnite® T08 200 (extrusion)

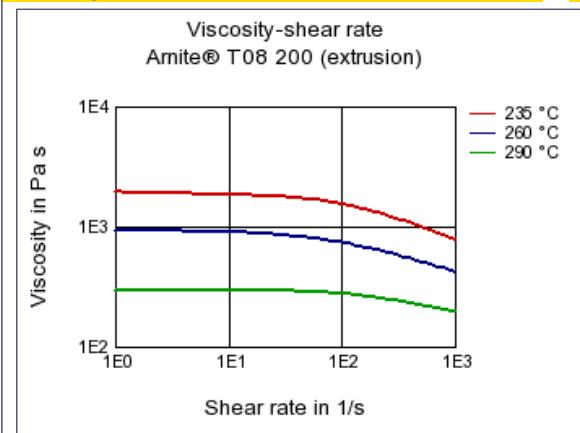
PBT

DSM Engineering Plastics

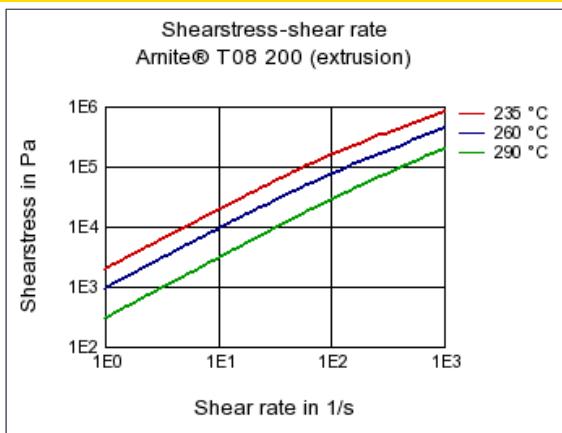
Rheological calculation properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Density of melt	1040	kg/m <sup>3</sup>	-
Thermal conductivity of melt	0.109	W/(m K)	-
Spec. heat capacity of melt	2260	J/(kg K)	-
Eff. thermal diffusivity	4.65E-8	m <sup>2</sup> /s	-

## Diagrams

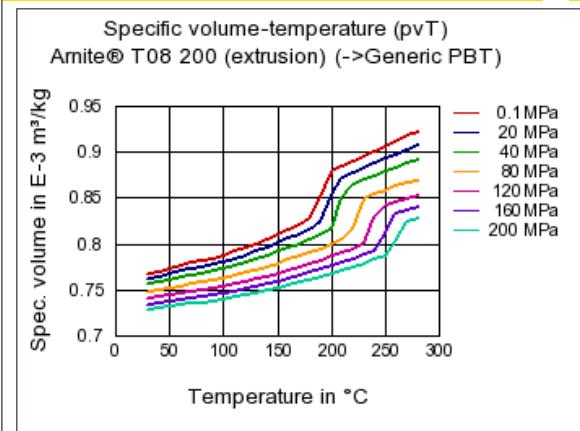
### Viscosity-shear rate



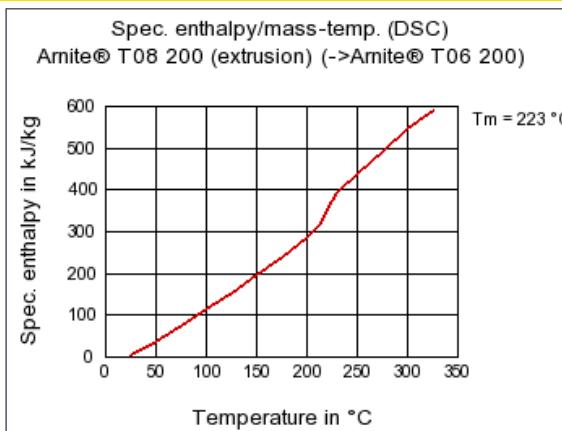
### Shearstress-shear rate



### 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](#)