


**Arnite® T06 200 (extrusion)**

PBT

Envalior

**Product Texts**

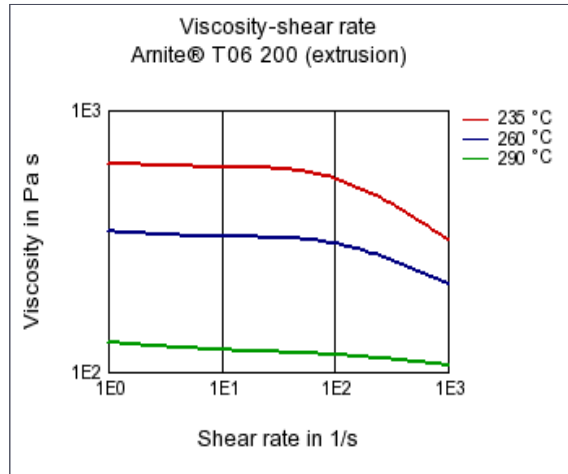
Low Viscosity, Injection Molding, Extrusion, Food Contact Quality

ISO 1043 PBT

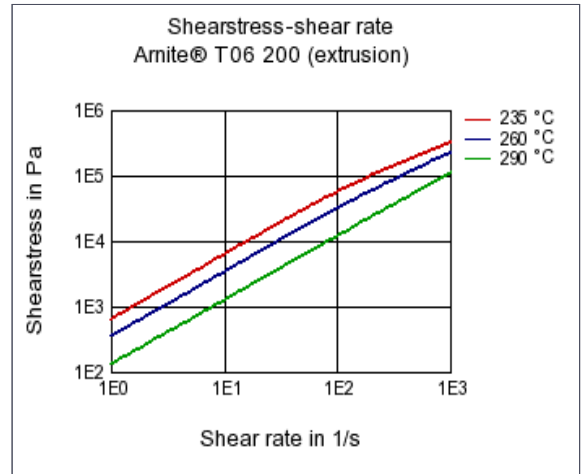
<b>Rheological properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	22	cm³/10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	-
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	2600	MPa	ISO 527
Yield stress	55	MPa	ISO 527
Yield strain	3.5	%	ISO 527
Nominal strain at break	>50	%	ISO 527
Charpy impact strength, +23°C	N	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	N	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	5	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	5	kJ/m²	ISO 179/1eA
<b>Thermal properties</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	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
<b>Electrical properties</b>			
<b>ISO Data</b>			
Relative permittivity, 100Hz	3.5	-	IEC 62631-2-1
Relative permittivity, 1MHz	3.2	-	IEC 62631-2-1
Dissipation factor, 100Hz	20	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	200	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	27	kV/mm	IEC 60243-1
Comparative tracking index	600	-	IEC 60112
<b>Other properties</b>			
<b>ISO Data</b>			
Water absorption	0.45	%	Sim. to ISO 62
Humidity absorption	0.18	%	Sim. to ISO 62
Density	1300	kg/m³	ISO 1183
<b>Rheological calculation properties</b>			
<b>ISO Data</b>			
Density of melt	1040	kg/m³	-
Thermal conductivity of melt	0.109	W/(m K)	-
Spec. heat capacity of melt	2260	J/(kg K)	-
Eff. thermal diffusivity	4.65E-8	m²/s	-

**Diagrams**

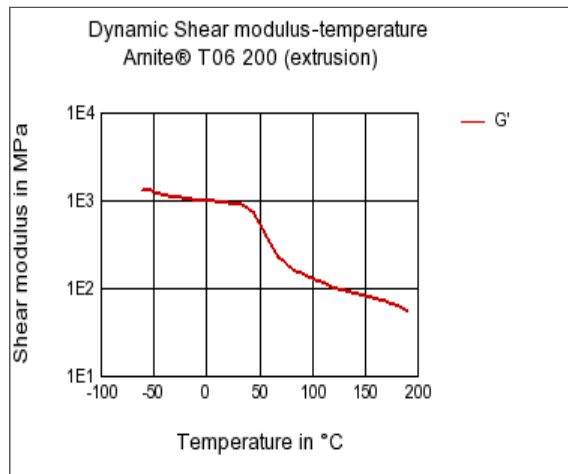
**Viscosity-shear rate**



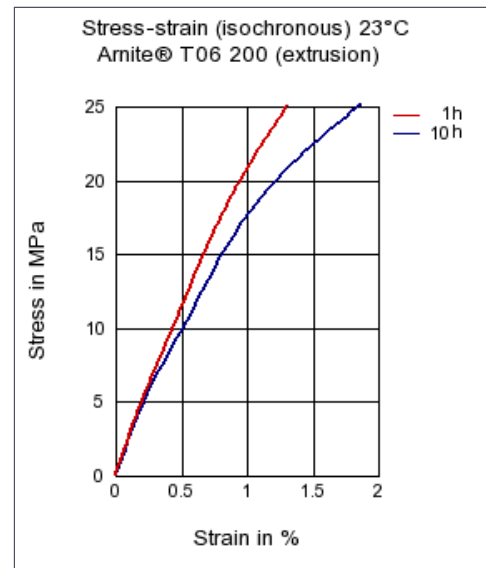
**Shearstress-shear rate**



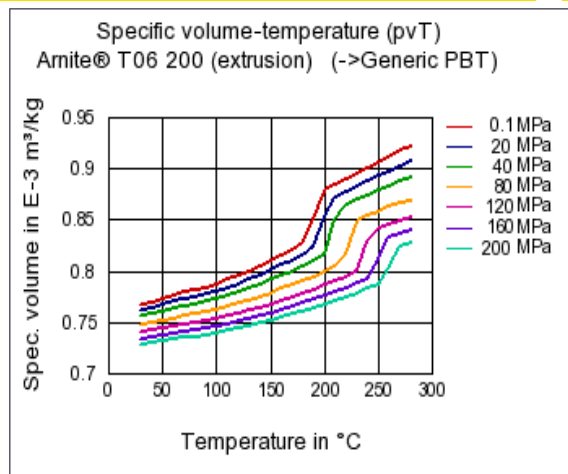
**Dynamic Shear modulus-temperature**



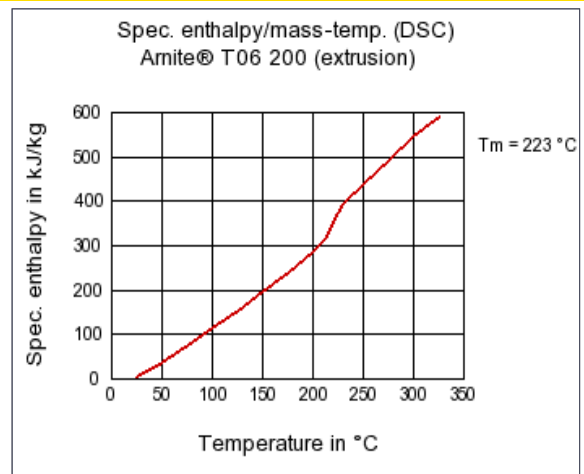
**Stress-strain (isochronous) 23 °C**








**Specific volume-temperature (pvT)**



**Spec. enthalpy/mass-temp. (DSC)**



**Characteristics**

<b>Arnite® T06 200 (extrusion)</b> PBT		Envalior
<b>Processing</b> Injection Molding, Film Extrusion, Other Extrusion	<b>Delivery form</b> Pellets	
<b>Other text information</b>		
<b>Injection Molding</b> <a href="#">Injection Molding Recommendations</a> <a href="#">Steel recommendations for molds screws and barrels</a> <a href="#">Supporting document for Stanyl quality processing</a>		
<b>Film extrusion</b> <a href="#">Extrusion Guideline for Arnite® T-grades</a>		
<b>Chemical Media Resistance</b>		
<b>Alcohols</b>		
 Methanol (23°C)  Ethanol (23°C)		
<b>Hydrocarbons</b>		
 Toluene (23°C)		
<b>Ethers</b>		
 Diethyl ether (23°C)		
<b>Other</b>		
 Water (23°C)		