

Arnite® T06 200

Polybutylene Terephthalate

DSM Engineering Plastics

Message:

Arnite® T06 200 is a Polybutylene Terephthalate (PBT) material. It is available in Asia Pacific or Europe for extrusion or injection molding.

Important attributes of Arnite® T06 200 are:

Flame Rated

Low Viscosity

General Information		
UL YellowCard	E43392-235179	E47960-240124
Features	Low Viscosity	
Forms	Pellets	
Processing Method	Extrusion	
	Injection Molding	

Multi-Point Data	Isochronous Stress vs. Strain (ISO 11403-1)		
	Shear Modulus vs. Temperature (ISO 11403-1)		
	Specific Heat vs. Temperature (ISO 11403-2)		
	Specific Volume vs Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		

Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.45	%	
Equilibrium, 23°C, 50% RH	0.18	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress (Yield)	55.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.5	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	%	ISO 527-2

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Unannealed	165	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	°C	ISO 75-2/A
Melting Temperature ¹	225	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	9.0E-5	cm/cm/°C	
Transverse	9.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	27	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.50		
1 MHz	3.20		
Dissipation Factor			IEC 60250
100 Hz	2.0E-3		
1 MHz	0.020		
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	HB		
1.50 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	3.0 to 12	hr	
Rear Temperature	230 to 240	°C	
Middle Temperature	230 to 250	°C	
Front Temperature	240 to 260	°C	
Nozzle Temperature	240 to 260	°C	
Processing (Melt) Temp	240 to 270	°C	
Mold Temperature	60.0 to 100	°C	
Injection Rate	Moderate-Fast		
Back Pressure	3.00 to 10.0	MPa	
Screw Compression Ratio	2.5:1.0		
NOTE			
1.	10°C/min		

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