Arnite® T06 200

PBT — Envalior

Product Texts

Low Viscosity, Injection Molding, Extrusion, Food Contact Quality

ISO 1043 PBT

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**22**	cm³/10min	ISO 1133
Temperature	**250**	°C	-
Load	**2.16**	kg	-
[C] Molding shrinkage, parallel	**1.8**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.8**	%	ISO 294-4, 2577
[C] Density of melt	**1040**	kg/m³	-
[C] Thermal conductivity of melt	**0.109**	W/(m K)	-
[C] Spec. heat capacity of melt	**2260**	J/(kg K)	-
[C] Eff. thermal diffusivity	**4.65E-8**	m²/s	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2700**	MPa	ISO 527
[C] Yield stress	**55**	MPa	ISO 527
[C] Yield strain	**3.5**	%	ISO 527
[C] Nominal strain at break	**>50**	%	ISO 527
[C] Charpy impact strength, +23°C	**N**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**N**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**5**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**5**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**225**	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**55**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**165**	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**90**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**90**	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
Yellow Card available	**yes**	-	-
[C] Burning Behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**3.0**	mm	-
Yellow Card available	**yes**	-	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Relative permittivity, 100Hz	**3.5**	-	IEC 62631-2-1
[C] Relative permittivity, 1MHz	**3.2**	-	IEC 62631-2-1
[C] Dissipation factor, 100Hz	**20**	E-4	IEC 62631-2-1
[C] Dissipation factor, 1MHz	**200**	E-4	IEC 62631-2-1
[C] Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
[C] Electric strength	**27**	kV/mm	IEC 60243-1
[C] Comparative tracking index	**600**	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Water absorption	**0.45**	%	Sim. to ISO 62

[C] Humidity absorption	**0.18**	%	Sim. to ISO 62
[C] Density	**1300**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding, Film Extrusion, Other Extrusion

Certifications
Food contact

Delivery form
Pellets

Regional Availability
Europe, Asia Pacific

Other text information

Injection molding
Injection Molding Recommendations
Steel recommendations for molds screws and barrels
Supporting document for Stanyl quality processing

Film extrusion
Extrusion Guideline for Arnite® T-grades