Arnite® T06 200 (extrusion)

Envalior - *Polybutylene Terephthalate*

General Information

Product Description			
Low Viscosity, Injection Molding, Extrusion, Food Contact Quality			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Food Contact Acceptable	• Low Viscosity	
Processing Method	• Extrusion	• Injection Molding	
Resin ID	• PBT		

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.30	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	22	cm³/10min	ISO 1133
Water Absorption (Saturation, 73°F)	0.45	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.18	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	377000	psi	ISO 527-1
Tensile Stress (Yield)	7980	psi	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
-22°F	2.4	ft·lb/in²	
73°F	2.4	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	No Break		
73°F	No Break		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	329	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	131	°F	ISO 75-2/A
Melting Temperature [2]	437	°F	ISO 11357-3
CLTE - Flow	5.0E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	5.0E-5	in/in/°F	ISO 11359-2
Effective Thermal Diffusivity	7.21E-5	in²/s	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	> 1.0E+13	ohms·m	IEC 62631-3-1
Electric Strength	690	V/mil	IEC 60243-1
Relative Permittivity			IEC 62631-2-1
100 Hz	3.50		
1 MHz	3.20		
Dissipation Factor			IEC 62631-2-1
100 Hz	2.0E-3		
1 MHz	0.020		
Comparative Tracking Index	600	V	IEC 60112
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Melt Density	1.04	g/cm³	

Melt Specific Heat	0.540	Btu/lb/°F	
Melt Thermal Conductivity	0.76	Btu·in/hr/ft²/°F	ASTM E1461
Additional Information	**Nominal Value**	**Unit**	**Test Method**
RSV - m-cresol, 1g/100ml	2.10		Internal Method

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 10°C/min