

Arnite® T06 202 /A

Envalior - Polybutylene Terephthalate

General Information

Product Description

Medium Viscosity, Injection Molding, Food Contact Quality

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Features	• Food Contact Acceptable • Medium Viscosity
Processing Method	• Injection Molding
Resin ID	• PBT

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) ²	27	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	24	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	2.0	%	
Flow	2.0	%	
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	392000	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	20	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	2.4	ft-lb/in ²	
73°F	2.4	ft-lb/in ²	
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 ³	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	in ² /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 (CTI)	PLC 0	UL 746A
Comparative Tracking Index	600 V	IEC 60112
Fill Analysis	Nominal Value	Unit
Melt Density	1.04	g/cm ³
Melt Specific Heat	0.540	Btu/lb/°F
Melt Thermal Conductivity	0.76	Btu·in/hr/ft ² /°F
		ASTM E1461

Notes

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

² 2.16 kg

³ 10°C/min

