

PLANAC BT-1500

Polybutylene Terephthalate

TOYOBO America, Inc.

Message:

PLANAC BT-1500 is a polybutene terephthalate (PBT) product. It can be processed by film extrusion or injection molding and is available in North America or Asia Pacific. Typical application areas are: movies. The main characteristics are: flame retardant/rated flame.

General Information			
Uses	Films		
Forms	Particle		
Processing Method	Film extrusion		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.5	%	ASTM D955
Transverse flow	1.9	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.080	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ASTM D638
Tensile Strength	60.0	MPa	ASTM D638
Tensile Elongation (Break)	300	%	ASTM D638
Flexural Modulus	2300	MPa	ASTM D790
Flexural Strength	90.0	MPa	ASTM D790
Compressive Strength	84.0	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	50	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	160	°C	ASTM D648
1.8 MPa, not annealed	70.0	°C	ASTM D648
CLTE - Flow (-30 to 100°C)	9.0E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength (1.60 mm)	26	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.30		ASTM D150

Dissipation Factor (1 MHz)	0.020		ASTM D150
Arc Resistance	130	sec	ASTM D495
Comparative Tracking Index (CTI)	600	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94

Additional Information

The value shown for Comparative Track Index, UL 746, was tested in accordance with ASTM D3638.Flexural Elongation @ Break, ASTM D790: NB

Injection	Nominal Value	Unit
Rear Temperature	230 - 260	°C
Middle Temperature	230 - 260	°C
Front Temperature	230 - 260	°C
Mold Temperature	20.0 - 70.0	°C

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