PLANAC BT-3500

Polybutylene Terephthalate

TOYOBO America, Inc.

Message:

PLANAC BT-3500 is a polybutene terephthalate (PBT) product. It can be processed by injection molding and is available in North America or Asia Pacific. Typical application areas are: glue/gummed paper. The main characteristics are: flame retardant/rated flame.

General Information			
Uses	Adhesive		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.31	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.5	%	ASTM D955
Transverse flow	2.0	%	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	2800	MPa	ASTM D638
Tensile Strength	60.0	MPa	ASTM D638
Tensile Elongation (Break)	200	%	ASTM D638
Flexural Modulus	2300	MPa	ASTM D790
Flexural Strength	105	MPa	ASTM D790
Compressive Strength	85.0	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	45	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	150	°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)	25	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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