

PLANAC BT-2200

Polybutylene Terephthalate

TOYOBO America, Inc.

Message:

PLANAC BT-2200 is a polybutene terephthalate (PBT) product. It can be processed by injection molding and is available in North America or Asia Pacific. The main characteristics are: flame retardant/rated flame.

General Information			
UL YellowCard	E51743-100754852		
Features	General		
Uses	General		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.4	%	ASTM D955
Transverse flow	1.8	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.070	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ASTM D638
Tensile Strength	55.0	MPa	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	2500	MPa	ASTM D790
Flexural Strength	95.0	MPa	ASTM D790
Compressive Strength	90.0	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	40	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)	8.5E-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)	240	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.300 mm)	V-0		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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