

PLANAC BT-2330

Polybutylene Terephthalate

TOYOBO America, Inc.

Message:

PLANAC BT-2330 is a polybutene terephthalate (PBT) product, which contains glass/mineral filler. 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	E51743-100754840	E51743-100754841	E51743-100754842
Filler / Reinforcement	Glass \Mineral		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.78	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.30	%	ASTM D955
Transverse flow	1.0	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.080	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9700	MPa	ASTM D638
Tensile Strength	105	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	9000	MPa	ASTM D790
Flexural Strength	160	MPa	ASTM D790
Compressive Strength	130	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	80	J/m	ASTM D256
Unnotched Izod Impact	500	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	210	°C	ASTM D648
CLTE - Flow (-30 to 100°C)	2.7E-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)	28	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.30		ASTM D150
Dissipation Factor (1 MHz)	0.020		ASTM D150
Arc Resistance	120	sec	ASTM D495
Comparative Tracking Index (CTI)	370	V	UL 746

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 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: 2%			
Injection	Nominal Value	Unit	
Rear Temperature	240 - 270	°C	
Middle Temperature	240 - 270	°C	
Front Temperature	240 - 270	°C	
Mold Temperature	50.0 - 100	°C	

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