

PLANAC BT-2230-27

Polybutylene Terephthalate

TOYOBO America, Inc.

Message:

PLANAC BT-2230-27 is a polybutene terephthalate (PBT) product, which contains a 30% glass fiber reinforced material. It can be processed by injection molding and is available in North America or Asia Pacific.

Features include:

- flame retardant/rated flame
- Corrosion resistance

General Information			
UL YellowCard	E51743-100754854		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Good corrosion resistance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.65	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.30	%	ASTM D955
Transverse flow	1.3	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10000	MPa	ASTM D638
Tensile Strength	125	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	9000	MPa	ASTM D790
Flexural Strength	190	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	450	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	205	°C	ASTM D648
CLTE - Flow (-30 to 100°C)	2.5E-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)	26	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.60		ASTM D150

Dissipation Factor (1 MHz)	0.020		ASTM D150
Arc Resistance	120	sec	ASTM D495
Comparative Tracking Index (CTI)	260	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: 2.5%

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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