

PLANAC BT-1015-02

Polybutylene Terephthalate

TOYOBO America, Inc.

Message:

PLANAC BT-1015-02 is a polybutene terephthalate (PBT) product, which contains a 15% 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
 - Good toughness

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	Good toughness		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.40	%	ASTM D955
Transverse flow	1.4	%	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	5500	MPa	ASTM D638
Tensile Strength	90.0	MPa	ASTM D638
Tensile Elongation (Break)	4.5	%	ASTM D638
Flexural Modulus	4600	MPa	ASTM D790
Flexural Strength	140	MPa	ASTM D790
Compressive Strength	110	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	90	J/m	ASTM D256
Unnotched Izod Impact	400	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	195	°C	ASTM D648
CLTE - Flow (-30 to 100°C)	4.5E-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)	24	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.50		ASTM D150
Dissipation Factor (1 MHz)	0.020		ASTM D150

Arc Resistance	140	sec	ASTM D495
Comparative Tracking Index (CTI)	500	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: 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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