

PBT 000 UF WHT

POLYBUTYLENE TEREPHTHALATE



PRODUCT DESCRIPTION

PBT Unfilled White Color

FEATURES

- Unfilled Grade
- Excellent Mechanical & Chemical properties
- White

APPLICATIONS

- Automotive
- Home appliance
- Electricals

TYPICAL PROPERTIES	TEST METHOD	UNIT	TYPICAL VALUES
PHYSICAL PROPERTIES			
Density	ASTM D792	g/cm ³	1.32
Melt Flow Rate(250°C/2.16Kg)	ASTM D1238	g/10min	50
Molding Shrinkage	ISO 294-4	%	1.6 – 2.0
Water absorption at 23°C	ISO 62	%	0.2 - 0.45
Moisture absorption	RMI Internal	%	<0.2
MECHANICAL PROPERTIES			
Tensile Strength, Yield	ISO-527	MPa	55
Elongation, Yield	ISO-527	%	4
Flexural Strength	ISO 178	MPa	80
Flexural Modulus	ISO 178	MPa	2300
Izod Impact Strength (Notched)	ISO 180	kJ/m ²	7.0
Charpy Impact Strength (Unnotched)	ISO -179/1eU	kJ/m ²	No Break
THERMAL PROPERTIES			
Heat Deflection Temperature Under Load-			
0.45 MPa, Unannealed	ISO 75-2/B	°C	140
1.8 MPa, Unannealed	ISO 75-2/A	°C	55

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Tal. Savali, Vadodara 391775. India
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TYPICAL PROPERTIES	TEST METHOD	UNIT	TYPICAL VALUES
FLAMMABILITY			
Flame Rating(0.8mm)Thickness	UL 94	-	HB
Glow Wire Testing	IEC 60695-2-12	°C	NA
ELECTRICAL PROPERTIES			
Volume Resistivity	IEC 62631-3-1	Ohms. M	> 1.0E+13
Electric Strength	IEC 60243-1	kV/mm	27
Dielectric Strength	IEC 62631-2-1	-	
100 Hz			3.40
1 MHz			3.20
Dissipation Factor	IEC 62631-2-1	-	
100 Hz			2.0E-3
1 MHz			0.020
Comparative Tracking Index	IEC 60112	V	550 - 600

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INJECTION MOLDING CONDITIONS

Mold Temperature	°C	85 to 120
Rear Temperature	°C	230 to 240
Middle Temperature	°C	240 to 250
Front Temperature	°C	240 to 250
Nozzle Temperature	°C	255 to 260

Drying Conditions

Material can be dried for 4 hours at 90 - 100°C or until moisture level <0.2%.

HANDLING AND STORAGE

Handling: Maintain good housekeeping. Spilled materials may create a slipping hazard. Remove dust from settling areas to prevent any secondary potential dust explosion or fire hazards. Electrostatic charge may build up during handling. Grounding of equipment is recommended.

Storage: Store in a dry place and away from direct sunlight or heat sources.

DISPOSAL CONSIDERATIONS

Disposal Method: It must be disposed of in accordance with Federal, State and local environmental control regulations.

The data and information contained herein are typical average values, based on our current level of knowledge and experience, and do not constitute sales specifications. No liability, warranty or guarantee of product performance is created by this document. It is the buyer's responsibility to inspect and test our products in order to determine the suitability for the buyer's application.

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