

Thermoplastic Adhesive Film TPO B606&B606P

● Product Introduction

B606 series is a thermoplastic adhesive film for the packaging of perovskite and film photovoltaic modules developed by Betterial. Compared with conventional EVA adhesive film, it has the advantages of low packaging temperature and low water vapor transmission rate, and maintains excellent weather resistance and good adhesion under low temperature packaging conditions. It can be widely used for the packaging of perovskite batteries and thin film battery modules.

● Product Specifications

Items	General Specifications	Customized Specifications
Thickness	0.45mm to 0.6mm	0.2mm to 0.8mm
Width	970mm to 1297mm	300mm to 1300mm
Length	150m	150m to 450m

● Technical Properties

Attributes	Items	Unit	B606	B606P	Standard	
	Types		Transparent	UV Cutoff		
Typical Physical Properties	Tensile Strength	MPa	>18	>18	ISO 527-3	
	Adhesion to Back-sheet	N/cm	≥40	≥40	GB/T 29848-2018	
	Adhesion to Glass	N/cm	≥80	≥80		
	Shrinkage (120°C x 3min)	MD	%	≤3.0		≤3.0
		TD	%	≤2.0		≤2.0
Optical Properties	Transmittance 280-380nm	%	≥75	≤20		
	Transmittance 380-1100nm	%	≥85	≥85		
Insulation Properties	Volume Resistivity	Ω·cm	≥1*10 ¹⁵	≥1*10 ¹⁵	IEC 60243	
	DC Breakdown Strength	kV/mm	>200	>200		
Aging Properties	DH2000hr	Yellowness Index	—	ΔYI≤5	GB/T 29848-2018	
		Adhesion to Glass	N/cm	≥40		
	UV	120Kw·h	—	ΔYI≤5		ΔYI≤5
Vapor Barrier	WVTR	23°Cx85% RH 500um	g/m ² ·day	≤5.0	≤5.0	ISO 15106-3

Notes 1 : MD is short for Longitudinal direction , and TD is short for Transverse direction.

Notes 2 : The data of the specifications and typical properties above probably exists some tolerances compared with our actual items, which because of our continuous innovations and products improvement.

● Recommended Lamination Process

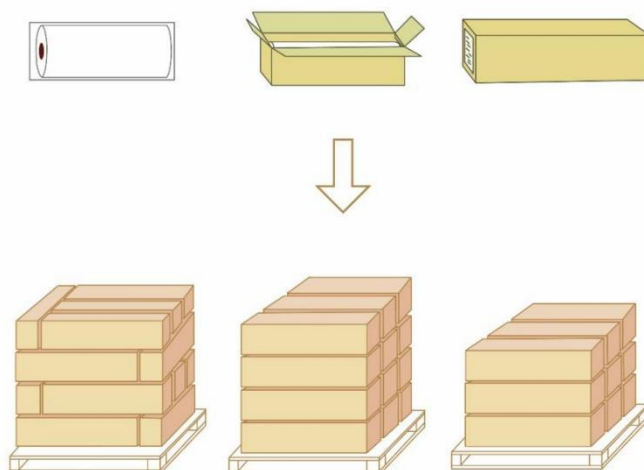
Lamination Parameters	Temperature °C	Vacuum Times	Pressure Holding Times
Single Chamber Laminator Process	110~120	360±60	600±120

● Storage Conditions

B606 has a shelf life of 6 months from the production date if stored in unopened original packages, under dry and clean conditions at temperatures below 30 °C (< 85 °F). Direct sunlight and exposure to heat sources should be avoided. After taking the roll out of the bag, it should be used up within 48hrs.

● Packing Method

150m/roll ; 3 inch inch paper core.



● Attention

- 1) The film cannot be exposed to the air for a long time, which is easy to degrade the performance.
- 2) The film shall be stored in a cool and dry indoor area, away from direct sunlight and heat source.
- 3) The film shall avoid contact with bare hands, water, oil, organic solvents and other chemicals.
- 4) After the interior package is unpacked, it shall be used up as soon as possible. If not, it shall be sealed and packaged properly.

The technical parameters in Betterial product manual are for reference only. Technical specifications are subject to change without any prior notice.

Copyright©2022 Betterial Chinese 1th edition , Sep. 19, 2022