PETCO
The Art of Packaging

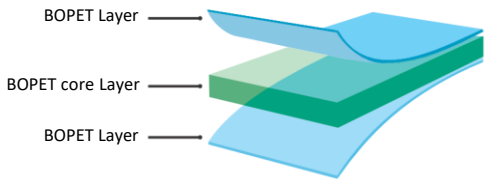
PETPAK 121S

Transparent BOPET Film

Electrical Insulation

Features:

- Excellent dielectric properties
- Superior mechanical strength
- Good thermal stability
- High break down voltage
- Excellent flatness



Application:

- Transparent film used for electrical insulation application like cable wrapping, electrical insulations in transformers and electrical motors.

Specification	Test Method	Unit	Test Direction	23µ	36µ	50µ	75µ
Yield	ASTM D4321	m^2/Kg	-	31.1	19.8	14.2	9.5
Tensile Strength	ASTM D882	N/mm^2	MD	180		190	
			TD	190		200	
Elongation at Break	ASTM D882	%	MD	135		145	
			TD	120		130	
Thermal Shrinkage (150 °C, 30 min)	ASTM D1204	%	MD	2		1.5	
			TD	1		0.5	
Haze	ASTM D1003	%	-	3.5		4	
Dynamic C.O.F	ASTM D1894	-	-	0.5			
Melting Point	Deferential thermo analysis	°C	-	250			
Water absorption	ASTM D570	%	-	< 0.5			
Break Down Voltage	ASTM D149	KV	-	5.4	6.1	6.9	8.6
Volume Resistivity	ASTM D257	ohm.cm	-	$>10^{15}$			

MD: Machine direction, TD: Transverse direction
Untreated film can also be supplied upon request (Petpak 120S).

Disclaimer :

- PETCO does not guarantee the typical values. Any data included herein is based on the analysis of representative samples and not the actual product shipped. NO guarantee is made regarding information presented in this document. The user is solely responsible for all determinations regarding use and therefore PETCO denies any responsibility for any loss or damage that may occur from the use of this information. PETCO strongly suggests that before any vast usage, make sure to study "Customer' s Guide " and test our product in limited amounts.

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Storage and Handling:
- BOPET films need to be stored in a closed place and should be prevented to expose to direct sunlight or light sources.
- It is recommended to store at conditions not exceeding 35 °C and in relative humidity less than 60%.
- The film should be kept in workplace at least 24 hours before being used.
- It is advisable to manage the inventory according to the delivery dates (first in – first out).

Indication of Surface Treatment:
- PETCO film is usually supplied with corona treatment on the outside surface and chemical treatment on the inside surface of the roll, as specified on the label of each roll.
- Metalized film is usually supplied with metalized layer on the outside surface of the roll.
- All films can be provided with different treatment sides, which should be confirmed by our sales department prior to ordering.

Printability/Lamination:
- To accurately check the surface treatment level in laboratory, standard corona solution (ASTM D2578) or contact angle measurement (ASTM D5946) can be used.
- It is recommended to use an ink adhesion test if it is necessary to identify the treatment side of the film. In this method, ink is applied to one side of the film and then peeling is checked using a standard 3M adhesive tape. If the ink peels off completely, the film is plain; if the ink peels slightly, it is the corona-treated side; and if there is no peeling, the film surface has a chemical coating.
- For harsh applications such as hot filling, boiling, and retort, it is recommended to place the laminated structure in boiling water for 20 minutes to check the performance of the chemical treatment. No delamination should be observed in the structure.
- It is recommended to use solventless lamination adhesive “Lamtec SL110A/210B”. For more information, please check our website.

Standard Roll Dimension:

Core Inner Diameter (inch)	Roll Diameter (mm)	Width Dimension (mm)	Width Tolerance (mm)
3	520 - 540	10 up to 1400	- 0 & +3
6	500 - 720	400 up to 3300	

Packaging:
- Films are packed vertically or horizontally on pallets.
- Normally, 6-inch rolls are palletized in horizontal direction and 3-inch rolls are palletized vertically depending on the width.
- For more information, packaging technical data is available.

Food Contact:
- This film complies with EU and FDA regulations. Specific documents and MSDS are available on request.

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