

## POLCOAT 442E

## Primer coated film specially designed for UV Printing

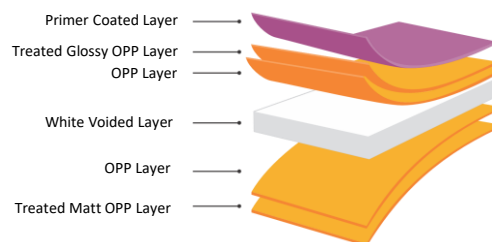
## Pearlized BOPP Film

## Features:

- Excellent opacity, gloss and stiffness
- Special skin layers for hot-melt or acrylic coating
- Improved slip and anti-static characteristics for sheeting and die cutting
- Excellent adhesion to UV inks on primer coated side

## Application:

- High stiff BOPP film, for self-adhesive label (hot melt or acrylic), where white appearance and **high thickness** is needed
- **Glossy** specially primer coated layer is suitable for UV ink adhesion.



Specification	Test Method	Unit	Test Direction	90μ
Wetting Tension	ASTM D2578	Dyne/cm	Treated Side	≥ 38
Tensile Strength	ASTM D882	N/mm <sup>2</sup>	MD	80
			TD	180
Elongation at Break	ASTM D882	%	MD	150
			TD	40
Thermal Shrinkage (120 °C, 5 min)	ASTM D1204	%	MD	≤ 4
			TD	≤ 2
Gloss	ASTM D2457	%	Matt Side	23
			Glossy Side	70
Opacity	DIN 53146	%	-	80
Yield	ASTM D4321	m <sup>2</sup> /kg	-	15.7
Density	ASTM D1505	gr/m <sup>3</sup>	-	0.7
Dynamic C.O.F	ASTM D1894	-	Film-Film	0.4
			Film-Metal	0.3

MD: Machine direction, TD: Transverse direction

Available thicknesses: All thicknesses between 60 -90 μ can be produced upon request.

None primer side is available for common offset sheet-fed printing in code of POLABLE 142E.

POLFILM does not guarantee the typical values. Any data included herein is based on the analysis of representative samples and not the actual product shipped.

POLFILM strongly suggests that before any vast usage, make sure to study "Customer's Guide" and test our product in limited amounts.

NO guarantee is made regarding information presented in this document. The user is solely responsible for all determinations regarding use and therefore POLFILM denies any responsibility for any loss or damage that may occur from the use of this information.

### Storage and Handling:

- Films should be stored on the pallets in a closed dry place and should not be exposed to direct sunlight and heating sources, it means at a safe distance of not less than 1 meter.
- Storage temperature between 10°C to 35°C and in relative humidity less than 40-60% is recommended in order to minimize the deterioration of the film properties.
- 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).
- For more information, please refer to the "customer's guide" document.

### Indication of Surface Treatment:

- This film is usually supplied with primer-coating on the outside surface that is indicated on the label of each roll, also all films have corona treatment on the inside surface, as well. These direction can be changed, Which should be agreed with our sales department before ordering.
- It is recommended to pay attention that outside primer coated is for printing and inside treatment (matt appearance) is for hotmelt or acrylic adhesive coating.

### Printability:

- A standard corona test pen should be used to check surface treatment before use of each roll.
- To check accurately of the surface treatment in laboratory, standard corona solution (ASTM D2578) or contact angle measurement (ASTM D5946) can be used.
- For reel to reel printing with UV inks, inline corona treatment is strongly recommended.
- The printing conditions of primer coated films has been optimized based on standard UV inks with radiation power of at least 160 W/cm and printing speed up to 120 m/min.
- It is recommended if there is any change in above condition, customer needs to reoptimize the printability of film with their own condition and consumer inks.
- If the printed films are used in intensified environmental conditions, a suitable overprint or over lamination should be applied on printed side to protect.

### Standard Roll Dimension:

Core Inner Diameter (inch)	Roll Diameter (mm)	Dimension Width (mm)	Tolerance (mm)
6	730 - 780	1020-1040	- 0 & +3

To calculate the diameter, length and weight of each roll, you can use the calculator on POLFILM website

### Packaging:

- Films normally are packed, 6-inch horizontally in two rolls on each pallets.
- Customized packaging will be available which should be agreed with our sales department before ordering.



### Food Contact:

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