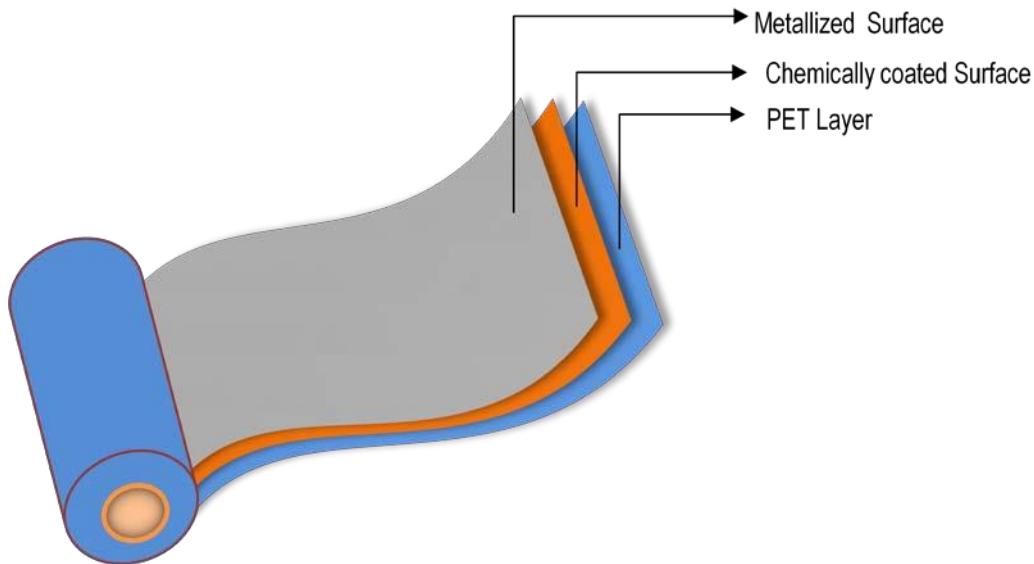

Product Name	High Barrier Metallized PET Film
Product code	EB104IP
Type	EB104IP – Metal Side Wound Inside
Layer Structure	

**EB104IP**

Key Features

- UmaPET EB104IP exhibits excellent barrier properties along with superior metal to film bond strength/adhesion.
- It has excellent mechanical properties, flex crack resistance and excellent gloss
- UmaPET EB104IP grade complies with US FDA, EC and REACH regulations for food contact application.

Applications

- UmaPET EB104IP is high barrier film used as barrier layer in flexible packaging applications which require high barrier and high bond strength in laminates.
- UmaPET EB104IP is suitable as substitute for Al Foil in flexible packaging
- Typical usage as barrier layer in laminates for instant drink powder, milk powder, juice powder, tea coffee, tomato ketch-up, liquid juices, cosmetics and personal care products.

Product Description: High Barrier Metallized PET Film**Product code:** EB104IP

Property		Test Method	Unit	Typical
Physical				
Thickness		Internal	μ	12
			gauge	48
Yield		Internal	m ² /kg	59.5
			ft ² /lb	291
Mechanical				
Tensile Strength (min)	MD	ASTM D-882	Kg/cm ²	1900
	TD			1900
	MD		Kg/cm ²	27000
	TD			27000
Elongation (min)	MD	ASTM D-882	%	100
	TD			90
Surface				
Wetting tension (min)	Metal Side	ASTM D-2578	Dyne/cm	56
Optical				
Optical Density (tolerance ±5%)		Internal	-	2.8
Thermal				
Shrinkage @ 150 C and 30 minutes (max)	MD	Internal	%	2.4
	TD			0.4
Barrier				
MVTR (37.8°C @ 90% RH)		ASTM F-1249	gm/m ² /24hr	< 0.2
			gm/100in ² /24hr	<0.01
OTR (23°C @ 0% RH)		ASTM D - 3985	cc/m ² /24hr	< 0.3
			cc/100in ² /24hr	<0.02
Metal Adhesion				
Metal / Film		Internal	gm / 25 mm	>650

MD- Machine Direction; TD- Transverse Direction

Option: Metal side wound in side other side corona treated

The information contained herein is to be used only as a guide line for using UmaPET film. The specifications and characteristics mentioned are based on reliable test procedures. It is recommended for users of this film to make independent assessment by their own for its suitability to their specific end use prior to commercial usage. Ester Industries Ltd does not offer any guarantee on the results and does not accept any liability arising out of the use of the information contained herein.