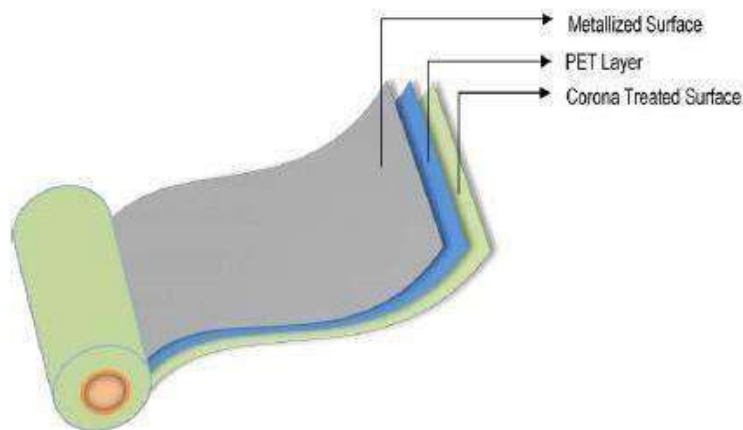


UmaPET Polyester Film*Product Data Sheet**Revision No- 02**Issued On- 01-01-2012*

Product Name	Barrier Metallized Polyester film
Product code	COM
Type	COM – Metal side wound inside and other side corona wound outside.

Layer Structure**Key Features**

- UmaPET COM is medium barrier metallized film, metallized on plain surface with plasma other side corona. It exhibits good barrier properties along with good metal to film bond strength/adhesion.
- It has excellent mechanical properties, flex crack resistance and excellent gloss.
- UmaPET COM grade complies with US FDA, EC and REACH regulations for food contact application.

Applications

- UmaPET COM is used as sandwich barrier layer in flexible packaging applications which require good barrier and good bond strength in laminates.
- Typical usage as barrier layer in laminates for confectionary, snacks, chips, extruded foods, tea etc.

UmaPET Polyester Film

Product Data Sheet

Revision No- 02

Issued On- 01-01-2012

TECHNICAL DATA SHEET

Description: Barrier Metallized Polyester film

Product code: COM

Property	Test Method	Unit	Typical Value				
Physical							
Thickness	Internal	μ	10	12	15	23	
		α auge	40	48	60	92	
Yield	Internal	m ² /kg	71.4	59.5	47.6	31	
		ft ² /lb	349.21	291.00	232.80	151.82	
Density	ASTM D-1005	gm/cc	1.395	1.395	1.395	1.395	
Mechanical							
Tensile Strength (min)	MD	ASTM D-882	Kg/cm ²	1900	1900	1900	1800
				TD	1900	1900	1900
	MD	ASTM D-882	lb/in ²	27000	27000	27000	25700
				TD	27000	27000	27000
Elongation (min)	MD	ASTM D-882	%	100	100	100	110
				TD	90	90	90
Surface							
Wetting tension (min)	Metal Side	ASTM D-2578	Dyne/cm	56	56	56	56
	Corona side			54	54	54	54
Optical							
Optical Density (tolerance $\pm 5\%$)	Internal	-	2.2	2.2	2.2	2.2	
Thermal							
Shrinkage @ 150 °C and 30 minutes (max)	MD	ASTM D-1204	%	2.4	2.4	2.4	2.4
	TD			0.4	0.4	0.4	0.4
Barrier							
MVTR (37.8°C @ 90% RH)	ASTM F-1249	gm/m ² /24hr	0.6	0.6	0.6	0.6	
		gm/100in ² /24hr	0.04	0.04	0.04	0.04	
OTR (23°C @ 0% RH)	ASTM D - 3985	cc/m ² /24hr	0.9	0.8	0.8	0.8	
		cc/100in ² /24hr	0.06	0.05	0.05	0.05	
Metal Adhesion							
Metal / Film	Internal	Gm / 25 mm	>175	>175	>175	>175	

MD- Machine Direction; TD- Transverse Direction

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. Users of this film should make independent assessment by their own for its suitability to their end use. 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.