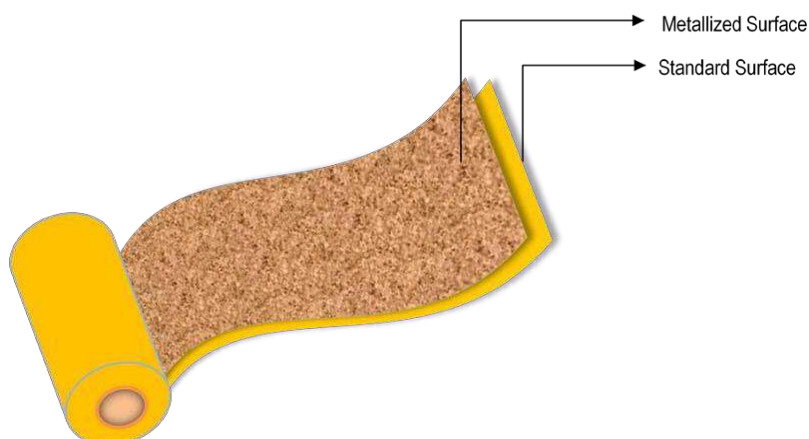


UmaPET Polyester Film

Product Name	Golden Metallized PET Film
Product code	CLM
Type	CLM – Metal side wound inside
Layer Structure	



Key Features

- Golden metallized polyester film offers excellent surface aesthetics.
- Golden shade in build in the polymer matrix.
- Excellent process ability.
- Complies with US FDA, EC and REACH regulations for food contact application.

Applications

- Flexible and carton packaging to offer barrier and high aesthetics.
- Useful as liner, lamination with paper and paper board.
- Good to use in decorative applications.
- Film used in safety kits as survival blanket.

UmaPET Polyester Film

Product Description: Golden Metallized PET Film

Product Code: CLM

Property	Test Method	Unit	Typical Value	
Physical				
Thickness	Internal	μ	12	
		gauge	48	
Yield	Internal	m ² /kg	59.5	
		ft ² /lb	290	
Density	ASTM D-1005	gm/cc	1.40	
Mechanical				
Tensile Strength (min)	MD	ASTM D-882	Kg/cm ²	1900
	TD			1900
	MD	ASTM D-882	lb/in ²	27000
	TD			27000
Elongation (min)	MD	ASTM D-882	%	100
	TD			90
Surface				
COF (max) (Standard to Metallized)	Static	ASTM D-1894	-	0.8
	Kinetic			0.65
Wetting tension (min)	Metal Side	ASTM D-2578	Dyne/cm	56
Optical				
Optical Density (tolerance ±5%)	Internal	-	-	2.2
Color Value	L*	E 313	CIE Scale	75 – 82
	a*			5.0 – 8.0
	b*			24.0 – 33.0
Thermal				
Shrinkage (max) [150°C / 30 minutes]	MD	Internal	%	2.8
	TD			0.8
Barrier				
MVTR (37.8°C @ 90% RH)	ASTM F-1249	gm/m ² /24hr		< 0.8
		gm/100in ² /24hr		< 0.05
OTR (23°C @ 0% RH)	ASTM D - 3985	cc/m ² /24hr		< 1.0
		cc/100in ² /24hr		< 0.06
Metal Adhesion				
Metal / Film	Internal	gm / 25 mm		> 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.