UmaPET Polyester Film

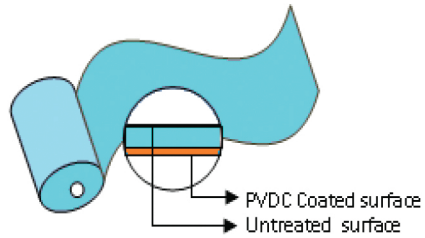
Technical Data Sheet

ER-UMA-EPT101_EPT110-PVDC-COAT2-IN-&-OUT-PET

Issued On-03rd Sept-2021

UmaPET- EPT 101/EPT 110 *(EPT-101 – PVDC Coated - Wound outside,EPT-110 – PVDC Coated - Wound inside)*

The product is Biaxial oriented transparent polyester film with one side PVDC coated Polyester Film & other side plain. Suitable for reverse print & lamination with PE. Superior oxygen, moisture & aroma barrier. Good dimensional stability. Complies with US FDA, EC and REACH regulations for food contact application.



Key features: Transparent barrier layer in flexible packaging. Use for packaging of food, drugs, cosmetics and other consumer goods. Designed for see through packaging application where high barrier is required.

Product properties:

Property			Test Method	Unit	Typical Value		
Physical	Thickness		Internal	µ	12	14	25
				gauge	48	56	100
	GSM		Internal	gm/m2	16	18.8	34.2
	Yield		Internal	m2/kg	62.5	53.1	29.2
				ft2/lb	305	259	143
Mechanical	Tensile Strength	MD	ASTM D-882	Kg/cm2	2000	2000	1900
		TD			2100	2100	2000
		MD	ASTM D-882	lb/in2	28500	28500	27000
		TD			30000	30000	28500
	Elongation	MD	ASTM D-882	%	100	100	110
		TD			90	90	100
Surface	Co-efficient of friction (Std. Vs Functional)	St	ASTM D-1894	-	0.55	0.55	0.55
		Dy			0.50	0.50	0.50
	Wetting tension	Coated Surface	ASTM D-2578	Dyne/ cm	54	54	54
		Plain Surface			42	42	42
Optical	Haze		ASTM D-1003	%	3.0	3.0	4.0
Thermal	Shrinkage @ 150 C and 30 minutes	MD	ASTM D-1204	%	2.0	2.0	2.0
		TD			0.0	0.0	0.0
Barrier	MVTR (37.8°C @ 90% RH)		ASTM F-1249	gm/m2/24hr	8.0	6.0	6.0
				gm/100in2/24hr	0.52	0.39	0.39
	OTR (23°C @ 0% RH)		ASTM D - 3985	cc/m2/24hr	8.0	8.0	8.0
				cc/100in2/24hr	0.52	0.52	0.52

MD- Machine Direction; TD- Transverse Direction, (Note: The other side corona treatment is as optional for enhancing adhesion performance)

The information contained herein is to be used only as a guideline 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.