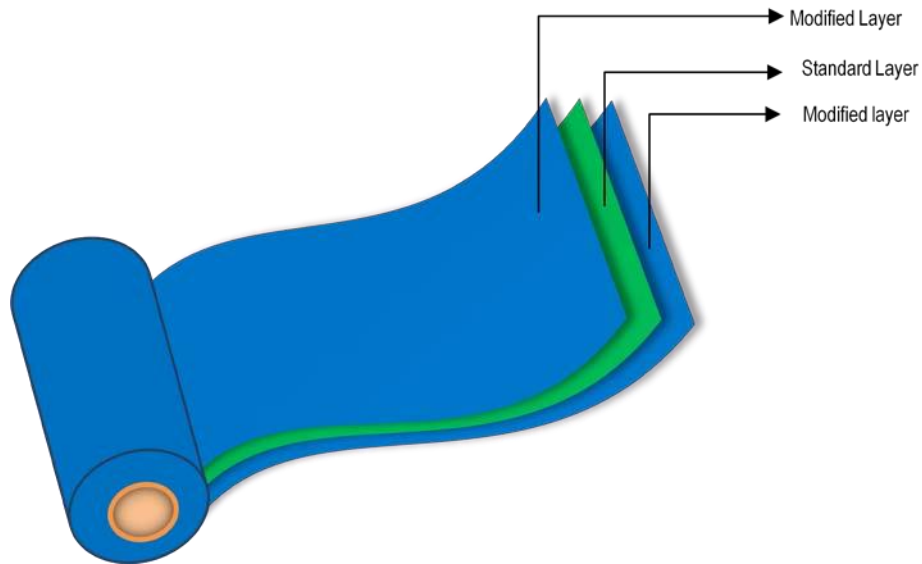


Product Name Plain Polyester film

Product code TF

Layer Structure



Key Features

- UmaPET TF is transparent film with plain surfaces on both sides.
- The film possesses good thermal, mechanical, optical and surface properties along with excellent transparency and dimensional stability.
- UmaPET TF grade complies with US FDA, EC and REACH regulations for food contact application.

Applications

- TF film is widely used for flexible packaging.
- Suitable for Printing, Lamination, Metallizing and other Industrial applications.

Product Description: Plain Polyester Film

Product code: TF

Property		Test	Unit	Typical Value			
Physical							
Thickness	Internal		μ	8	10	12	15
			gauge	32	40	48	60
Yield	Internal		m ² /kg	90	71.4	59.5	47.6
			ft ² /lb	440.18	349.21	291	232.8
Mechanical							
Tensile Strength (min)	MD	ASTM D-882	Kg/cm ²	1900	1900	1900	1900
	TD			1900	1900	1900	1900
	MD	ASTM D-882	lb/in ²	27000	27000	27000	27000
	TD			27000	27000	27000	27000
Elongation (min)	MD	ASTM D-882	%	100	100	100	100
	TD			90	90	90	90
Surface							
Co-efficient of friction (Std. Vs Functional) (max)	St	ASTM D-1894	-	0.5	0.5	0.5	0.5
	Dy			0.45	0.45	0.45	0.45
Wetting tension (min)	Plain Side	ASTM D-2578	Dyne/cm	42	42	42	42
Optical							
Haze (max)		ASTM D-1003	%	3	3	3.5	3.5
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

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. 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.

Product Description: Plain Polyester Film

Product code: TF

Property		Test	Unit	Typical Value			
Physical							
Thickness	Internal		μ	19	23	36	50
			gauge	76	92	144	200
Yield	Internal		m ² /kg	37.6	31	19.8	14.3
			ft ² /lb	183.9	151.62	96.84	69.94
Mechanical							
Tensile Strength (min)	MD	ASTM D-882	Kg/cm ²	1900	1800	1800	1700
	TD			1900	1800	1800	1800
	MD	ASTM D-882	lb/in ²	27000	25700	25700	24000
	TD			27000	25700	25700	25500
Elongation (min)	MD	ASTM D-882	%	100	110	110	110
	TD			90	100	100	100
Surface							
Co-efficient of friction (Std. Vs Functional) (max)	St	ASTM D-1894	-	0.5	0.48	0.45	0.4
	Dy			0.48	0.4	0.4	0.38
Wetting tension (min)	Plain Side	ASTM D-2578	Dyne/cm	42	42	42	42
Optical							
Haze (max)		ASTM D-1003	%	4	4.5	7	8
Thermal							
Shrinkage @ 150 C and 30 minutes (max)	MD	ASTM D-1204	%	2.4	2	2	2
	TD			0.4	0.4	0.4	0.4

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