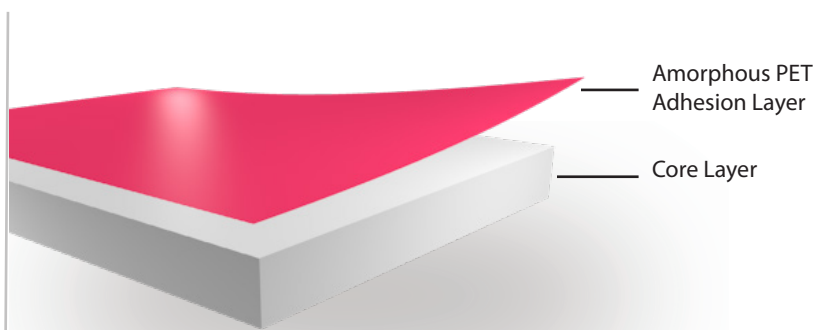


# Lumirror PA10

## Applications

- Printing
- Laminating



Lumirror PA10

**TWO LAYER PET FILM,  
ONE SIDE FOR ADHESION  
PROMOTION**

## Summary

PA10 is a plain transparent asymmetrical polyester film with one side modified to improve printing and laminating adhesion in packaging.

## Technical Data \*

PROPERTIES		METHOD	UNITS	TYPICAL VALUES				
Thickness		-		25	32	36	48	92
Nominal Yield		-	in <sup>2</sup> /lb	79,100	61,800	54,900	41,200	21,500
F-5	MD	ASTM D882	lb/in <sup>2</sup>	15,200	15,800	15,600	15,600	15,200
	TD			13,500	14,400	14,400	14,500	14,800
Tensile Strength at Break	MD	ASTM D882	lb/in <sup>2</sup>	37,700	39,700	40,300	40,700	34,700
	TD			34,600	36,300	36,100	36,700	39,400
Young's Modulus	MD	ASTM D882	lb/in <sup>2</sup>	547,600	743,900	738,200	733,900	669,900
	TD			624,400	732,500	739,600	749,600	739,600
Elongation at Break	MD	ASTM D882	%	90	100	100	110	150
	TD			100	110	110	120	120
Heat Shrinkage (150°C for 30 minutes)	MD	ASTM D1204	%	2.8	2.4	2.4	2.2	1.9
	TD			1.6	1.4	1.1	1.0	0.6
Coefficient of Friction	A-side vs. B-side	ASTM D1894	μ <sub>s</sub>	0.8	0.6	0.5	0.4	0.4
			μ <sub>D</sub>	0.7	0.5	0.5	0.4	0.3
Haze (1 sheet)		ASTM 1003	%	2.9	3.2	3.3	3.6	5.7
MVTR - 100 °F, 90% RH		ASTM F1249		5.6	4.4	3.9	2.9	1.4
O <sub>2</sub> Barrier - 73 °F, 0% RH		ASTM D3985		15.4	12.0	11.0	8.0	4.0

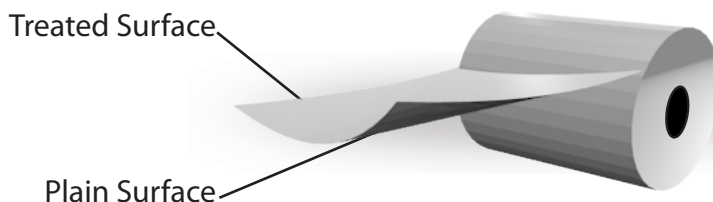
## Key Features

- Excellent mechanical properties
- Good machinability due to surface roughness properties
- Improved adhesion of inks, adhesives, cohesives and polyethylene on the modified surface
- Excellent dimensional stability at higher temperatures
- Complies with US FDA 21 CFR 177.1630 requirements for food packaging applications
- Drug Master File listed #17749

## Similar Products

- PA66
- PA15
- PA25

## Winding Direction



\* These values do not constitute specific binding specifications

DISCLAIMER: This information is believed to be correct as of the date of issue. Toray Plastics (America), Inc. MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE AND TAKES NO RESPONSIBILITY REGARDING THE SUITABILITY OF THIS INFORMATION FOR THE USER'S INTENDED PURPOSES OR FOR THE CONSEQUENCE OF ITS USE. User is responsible for determining whether the Toray Plastics (America), Inc. product is fit for a particular purpose and suitable for user's method or use of application. Given the variety of factors that can affect the use and application of Toray Plastics (America), Inc. products, which are uniquely within the user's knowledge and control, it is essential that the user make its own tests to determine the safety and suitability of each Toray Plastics (America), Inc. product or product combination for its own purpose.

Lumirror® is a registered trademark of Toray Industries, Inc. for its range of Polyester Films based on Polyethylene Terephthalate (PET).