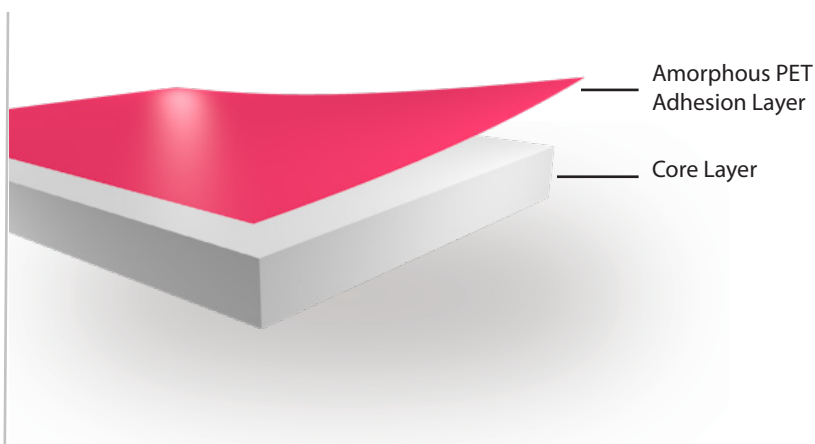


# LUMIRROR<sup>®</sup> GA10

## Applications

- Gamma Sterilization
- Medical Packaging



Lumirror GA10

TWO LAYER PET FILM,  
ONE SIDE FOR ADHESION  
PROMOTION

## Summary

GA10 is a polyester film designed for gamma sterilization and medical packaging. One side is modified to improve adhesion in printing and laminating applications.

## Technical Data \*

PROPERTIES		METHOD	UNITS	TYPICAL VALUES				
Thickness		-	micron	6.4	8.1	9.0	11.2	12.2
Nominal Yield		-	m <sup>2</sup> /kg	111.6	88.2	79.4	63.8	58.5
F-5	MD	ASTM D882	Mpa	105	109	108	108	108
	TD			93	99	99	100	100
Tensile Strength at Break	MD	ASTM D882	Mpa	260	274	278	280	280
	TD			238	250	249	253	253
Young's Modulus	MD	ASTM D882	Mpa	3,776	5,129	5,090	5,060	5,060
	TD			4,305	5,050	5,099	5,168	5,168
Elongation at Break	MD	ASTM D882	%	90	100	100	110	110
	TD			100	110	110	120	120
Heat Shrinkage (150°C for 30 minutes)	MD	ASTM D1204	%	2.8	2.4	2.4	2.2	2.2
	TD			1.6	1.4	1.1	1	1.0
Coefficient of Friction	A-side vs. B-side	ASTM D1894	$\mu_s$	0.8	0.6	0.5	0.4	0.4
			$\mu_b$	0.7	0.5	0.5	0.4	0.4
Haze (1 sheet)		ASTM 1003	%	2.9	3.2	3.3	3.6	3.6
MVTR - 38 °C, 90% RH		ASTM F1249	g/m <sup>2</sup> /day	86.8	68.2	60.5	49.0	45.0
O <sub>2</sub> Barrier - 23 °C, 0% RH		ASTM D3985	cc/m <sup>2</sup> /day	238.7	186.0	170.5	139.5	124.0

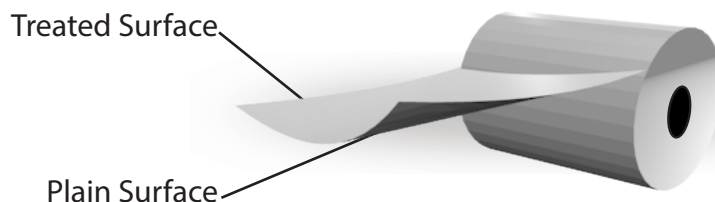
## Key Features

- Excellent tensile and elongation properties after gamma irradiation sterilization
- 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

- GA66
- GA25

## 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).