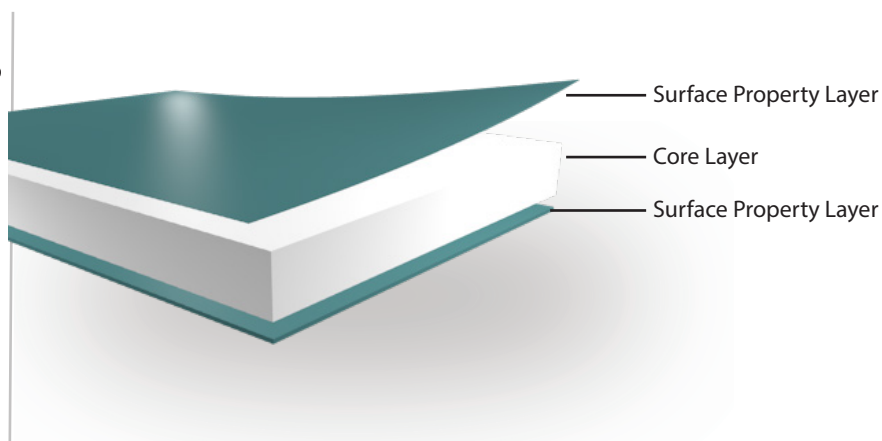


# LUMIRROR<sup>®</sup> U50

## Applications

- Solar window
- Graphic and optical
- Overlamine



Lumirror U50

## ULTRA CLEAR THREE LAYER PET FILM

## Summary

U50 is an ultra clear film with surface and optical properties that are strictly controlled by co-extrusion technology.

## Technical Data \*

PROPERTIES		METHOD	UNITS	TYPICAL VALUES		
Thickness		-	micron	12.2	23.4	50.8
Nominal Yield		-	m <sup>2</sup> /kg	58.5	30.5	14.1
F-5	MD	ASTM D882	Mpa	109	102	106
	TD			100	95	101
Tensile Strength at Break	MD	ASTM D882	Mpa	272	205	185
	TD			253	226	217
Elongation at Break	MD	ASTM D882	%	120	170	170
	TD			130	150	130
Heat Shrinkage (150°C for 30 minutes)	MD	ASTM D1204	%	1.6	1.2	1
	TD			0.8	0.4	0.8
Heat Shrinkage (190°C for 5 minutes)	MD	ASTM D1204	%	3.1	2.1	1.8
	TD			1.5	0.7	1.0
Coefficient of Friction	A-side vs. B-side	ASTM D1894	μ <sub>s</sub>	0.5	0.4	0.4
			μ <sub>D</sub>	0.4	0.3	0.4
Haze (1 sheet)		ASTM 1003	%	0.6	0.8	0.8

The product described is covered by one or more of the following patents or patents pending:  
**US 6706387, US 6709740**

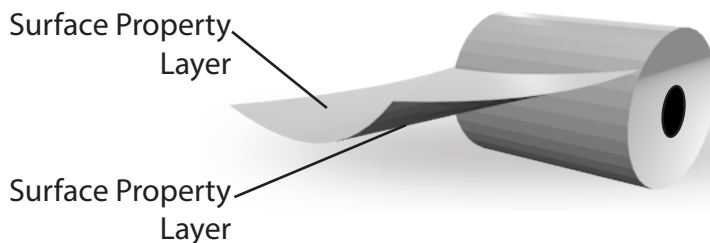
### Key Features

- Co-extruded three layer structure allows very low haze and friction

### Similar Products

- U60
- U65

### 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).