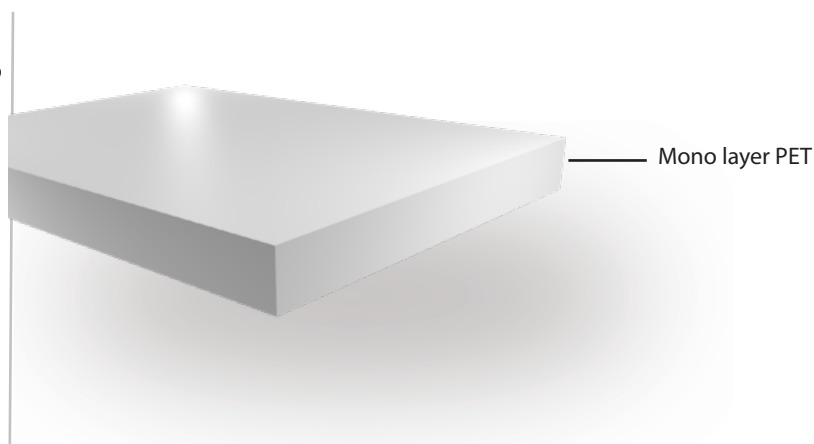


# LUMIRROR<sup>®</sup> F65

## Applications

- Hot stamping
- Casting
- Release Liner



Lumirror F65

## PLAIN PET FILM

## Summary

F65 is designed for easy handling during processing, especially in hot stamping applications. This film is also designed to avoid the formation of heat wrinkles in the machine direction during drying operations.

## Technical Data \*

PROPERTIES		METHOD	UNITS	TYPICAL VALUES							
Thickness		-	0.00001"	46	48	60	75	92	142	200	300
Nominal Yield		-	in <sup>2</sup> /lb	43,000	41,200	32,900	26,400	21,500	13,900	9,900	6,600
F-5	MD	ASTM D882	lb/in <sup>2</sup>	15,100	15,100	15,200	15,400	14,900	14,600	14,800	15,800
	TD			13,900	13,900	13,700	13,700	14,100	13,700	13,900	15,400
Tensile Strength at Break	MD	ASTM D882	lb/in <sup>2</sup>	35,300	35,400	34,600	35,300	30,300	24,700	24,500	29,900
	TD			34,400	34,300	32,700	32,700	34,400	27,000	28,700	30,900
Young's Modulus	MD	ASTM D882	lb/in <sup>2</sup>	704,100	702,600	702,600	704,100	660,000	651,400	645,700	661,400
	TD			768,100	765,200	722,500	712,600	729,700	729,700	719,700	678,500
Elongation at Break	MD	ASTM D882	%	130	130	130	130	160	170	180	180
	TD			120	120	130	140	130	130	140	160
Heat Shrinkage (150°C for 30 minutes)	MD	ASTM D1204	%	1.6	1.6	1.5	1.5	1.4	1.1	1.2	1
	TD			0.3	0.3	0.1	0.2	0.2	0.2	0.1	1.3
Heat Shrinkage (190°C for 20 minutes)	MD	ASTM D1204	%	3.6	3.5	3.1	3.0	2.7	2.0	2.0	2.0
	TD			0.7	0.7	0.3	0.3	0.8	0.5	0.3	1.8
Coefficient of Friction	A-side vs. B-side	ASTM D1894	$\mu_s$	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3
			$\mu_d$	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Haze (1 sheet)		ASTM 1003	%	3.0	3.0	3.5	3.5	3.5	4.0	7.0	5.5

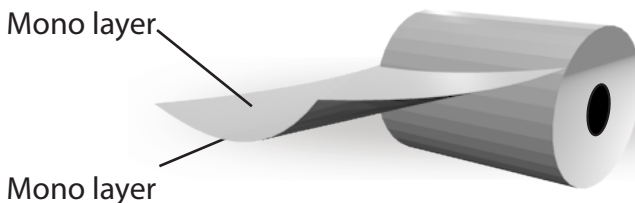
### Key Features

- High strength and good handling properties
- Low coefficient of friction which facilitates smooth coating and finishing
- Resistant to heat wrinkle formation in the machine direction during coating process

### Similar Products

- F6L
- F7S
- F7R

### 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).