



# DuPont Teijin Films™

## MELINEX® 454

### Product Description

Melinex® 454 is an excellent handling, high clarity film with both sides pre-treated to promote adhesion to most printing inks and Industrial coatings.

### Typical Applications

Melinex® 454 is used as a base for pressure sensitive labels, general industrial coatings and applied window films.

### Typical Properties

#### Available Thickness [Gauge]

92; 142; 200; 300; 400; 500; 700

Property	Thickness	Value	Units	Test
<b>OPTICAL</b>				
Haze	92	0.3	%	ASTM D1003
Haze	142	0.3	%	ASTM D1003
Haze	200	0.4	%	ASTM D1003
Haze	300	0.4	%	ASTM D1003
Haze	400	0.5	%	ASTM D1003
Haze	500	0.6	%	ASTM D1003
Haze	700	1.0	%	ASTM D1003
Total Light Transmission (TLT)	92	88.8	%	ASTM D1003
Total Light Transmission (TLT)	142	88.7	%	ASTM D1003
Total Light Transmission (TLT)	200	88.7	%	ASTM D1003
Total Light Transmission (TLT)	300	88.5	%	ASTM D1003
Total Light Transmission (TLT)	400	88.3	%	ASTM D1003
Total Light Transmission (TLT)	500	88.0	%	ASTM D1003
Total Light Transmission (TLT)	700	87.0	%	ASTM D1003
<b>PHYSICAL</b>				
C.O.F. (dynamic)	92 - 700	0.4		ASTM D1894
Elongation at Break MD	92 - 200	150	%	ASTM D882A
Elongation at Break MD	300 - 700	150	%	ASTM D882A
Elongation at Break TD	92 - 200	100	%	ASTM D882A
Elongation at Break TD	300 - 700	100	%	ASTM D882A
Tensile Strength MD	92 - 200	28,000	psi	ASTM D882A
Tensile Strength MD	300 - 700	28,000	psi	ASTM D882A
Tensile Strength TD	92 - 200	36,000	psi	ASTM D882A
Tensile Strength TD	300 - 700	36,000	psi	ASTM D882A
Yield (nominal)	92	21,800	in <sup>2</sup> /lb	
Yield (nominal)	142	14,000	in <sup>2</sup> /lb	
Yield (nominal)	200	9,900	in <sup>2</sup> /lb	
Yield (nominal)	300	6,600	in <sup>2</sup> /lb	
Yield (nominal)	400	5,000	in <sup>2</sup> /lb	
Yield (nominal)	500	4,000	in <sup>2</sup> /lb	
Yield (nominal)	700	2,800	in <sup>2</sup> /lb	
Yield Strength MD	92 - 200	14,000	psi	ASTM D882A
Yield Strength MD	300 - 700	14,000	psi	ASTM D882A
Yield Strength TD	92 - 200	14,000	psi	ASTM D882A
Yield Strength TD	300 - 700	14,000	psi	ASTM D882A
<b>THERMAL</b>				
Shrinkage MD (190°C)	92 - 200	2.5	%	Unrestrained @190°C/5 min
Shrinkage MD (190°C)	300 - 700	2.5	%	Unrestrained @ 190°C/5 min
Shrinkage TD (190°C)	92 - 200	1.0	%	Unrestrained @190°C/5 min
Shrinkage TD (190°C)	300 - 700	1.0	%	Unrestrained @ 190°C/5 min

## Contact Info

DuPont Teijin Films U.S. Limited Partnership  
3600 Discovery Drive  
Chester, VA 23836 USA  
Tel: (800) 635-4639  
Fax: (804) 530-9867

## Disclaimer

Note: These values are typical performance data for DuPont Teijin Films' polyester film; they are not intended to be used as design data. We believe this information is the best currently available on the subject. It is offered as a possible helpful suggestion in experimentation you may care to undertake along these lines. It is subject to revision as additional knowledge and experience is gained. DuPont Teijin Films makes no guarantee of results and assumes no obligation or liability whatsoever in connection with this information. This publication is not a license to operate under, or intended to suggest infringement of, any existing patents.

CAUTION: Do not use in medical applications involving permanent implantation in the human body ([DuPont Teijin Films Medical Policy](#)). For other medical applications, see the [Medical Caution Statement](#). DuPont Teijin Films accepts no liability for use of its products in medical applications not reviewed and approved by DuPont Teijin Films or for product misuse. DuPont Teijin Films supplies products to an agreed specification and does not manufacture products designed specifically for medical end use.

Melinex®, Mylar® and Melinex® ST™ are registered trademarks of DuPont Teijin Films U.S. Limited Partnership. Teijin® and Teton® are registered trademarks of Teijin Limited used under license by DuPont Teijin Films U.S. Limited Partnership. Teonex® is a registered trademark of Teijin DuPont Films Japan Limited and is used under license by DuPont Teijin Films U.S. Limited Partnership.