



Innovative Polyester *Films*  
**Electronics**

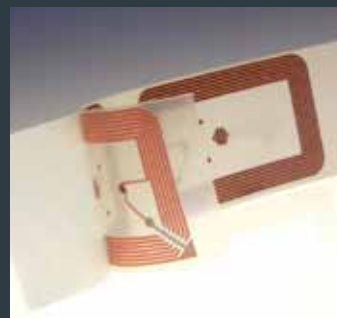
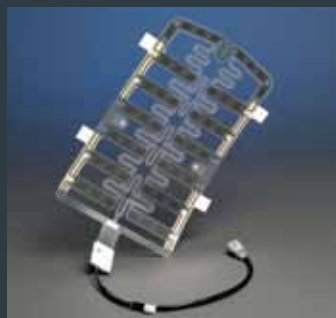
Delivering flexible substrates for  
advanced electronics applications

## Melinex® Mylar®

### Mylar® and Melinex® PET films

- excellent electrical properties
- ease of handleability
- superb optical clarity
- long flex life
- embossable
- printable
- pretreatments for enhanced adhesion

FILM TYPE	THICKNESS (MICRON)	SURFACE PRETREAT	TYPICAL APPLICATIONS
<b>Standard Films, for use where shrinkage is not critical or where film is stabilised in-house</b>			
Mylar® A	12-500	None	Strong, durable, hazy film with excellent handleability for MTS and FPC applications.
Melinex® OD	125-250	None	Optically clear for MTS graphics.
Melinex® 339	50-250	2-side adhesion	White film with high opacity and excellent printability.
Melinex® 506	75-250	2-side adhesion	Optically clear with excellent printability and ink adhesion.
Melinex® 715	125-250	1-side adhesion	Optically clear with excellent adhesion to UV inks and lacquers.
Melinex® 726	125-175	2-side adhesion	Optically clear with superb adhesion to circuitry inks for FPC applications.
Melinex® TCH11	50-125	1-side index match	Optically clear, low bloom with anti-iridescence for touch screen applications.
<b>Films with lower shrinkage, for improved performance over standard films</b>			
Mylar® ADS	50-125	None	Lower shrinkage version of Mylar® A suitable for FPC and MTS circuitry.
<b>Fully heat stabilised optically clear films with very low shrinkage, where ultimate PET film performance is required</b>			
Melinex® ST504	125-175	1-side adhesion	Low bloom with adhesion pre-treat developed for ITO sputtering and other deposition processes.
Melinex® ST506	100-250	2-side adhesion	Low bloom with excellent printability and ink adhesion suitable for MTS graphics and circuitry applications.
Melinex® ST726	125-175	2-side adhesion	Optically clear with superb adhesion to circuitry inks for FPC applications.
Melinex® STCH11	50-125	1-side index match	Low bloom with anti-iridescence for touch screen.
Melinex® STCH12	50-125	2-side index match	Low bloom with anti-iridescence for touch screen on both sides.
Melinex® STCH14	50-125	1-side adhesion 1-side index match	Low bloom with anti-iridescence and printable surfaces for touch screen.
Melinex® STCH21	50-125	1-side adhesion	Low bloom with excellent printability and ink adhesion.
Other development PET film grades are available to meet specific application needs. Please enquire for further details.			



# Teonex®

## Teonex® PEN Films

- superior thermal and hydrolytic stability
- improved barrier properties
- superb optical clarity
- suitable for mild soldering
- higher modulus to density ratio
- more temperature - resistant embossing
- very low shrinkage (heat stabilised)

FILM TYPE	THICKNESS (MICRON)	SURFACE PRETREAT	TYPICAL APPLICATIONS
<b>PolyEthylene Naphthalate (PEN) Films</b>			
Teonex® Q51	12-250	None	Standard grade PEN film with excellent handleability.
Teonex® Q83	25-125	None	Heat stabilised PEN film with a very low shrinkage up to 230°C. Designed for FPC applications requiring soldering.
Teonex® Q51DW	25-50	2-side adhesion	Standard grade PEN film with enhanced adhesion to many solvent based systems and excellent handleability.
Teonex® Q65H	50-200	1-side adhesion	Optically clear PEN film with adhesion pretreat for sputtering in flexible electronics applications.
Teonex® Q65HA	50-200	1-side adhesion	Optically clear heat stabilised PEN with very low shrinkage up to 230°C.
Optfine® PQA1	125-188	1-side planarised	Smooth, defect free surface for advanced electronics applications.
Other development PEN film grades are available to meet specific application needs. Please enquire for further details.			

### Flexible Printed Circuits (FPC) Flat Flexible Cables (FFC)

- films for copper laminates and adhesive coverlays
- applications in automobile wiring, appliances, RFID tags, smart card lead frames and antennae

### Membrane Touch Switch (MTS)

- films for circuit, graphics and spacer layers
- applications in automotive seat sensors, industrial and domestic equipment, keyboards, mobile phones

### Flexible Electronics

- films for ITO sputtering and hard coating
- applications in touch screens, electroluminescent lamps, flexible displays





This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentations. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, DuPont Teijin Films makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.

Caution: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see 'DuPont Teijin Films Medical Caution Statement', H-50102-1-DTF.

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