



Innovative Polyester *Films*
Flexible Electronics

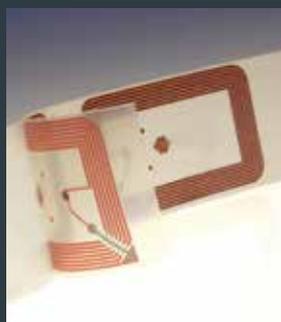
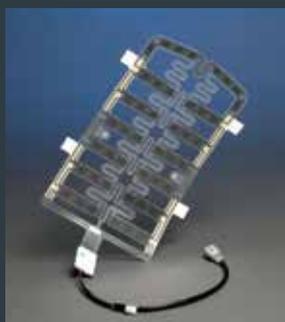
Differentiated substrates for
advanced flexible electronics applications

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
- chemical resistance

FILM TYPE	THICKNESS MICRON (GAUGE)	SURFACE PRETREAT	TYPICAL APPLICATIONS
Standard Films, for use where shrinkage is not critical or where film is stabilised in-house			
Mylar® A	12-500 (48-2000)	None	Strong, durable, hazy film with excellent handleability for general electronics applications.
Mylar® ADS	50-125 (200-500)	None	Lower shrinkage version of Mylar® A, suitable for FPC and MTS circuitry.
Melinex® OD	125-250 (500-1000)	None	Optically clear for MTS graphics.
Melinex® 250	50 (200)	None	Black PET film, UV stable, improved resistance to hydrolysis.
Melinex® 329	36 - 330 (142-1300)	None	White film with high opacity for sputtering and other deposition processes.
Melinex® 339	50-330 (200-1300)	2-side adhesion	White PET film with high opacity and excellent printability and ink adhesion.
Melinex® 453 Melinex® 454	36-175 (142-700)	1-side adhesion 2-side adhesion	Optically clear films with excellent handling properties. Pretreated on one or two sides to promote adhesion to many printing inks and industrial coatings.
Melinex® 506	75-250 (300-1000)	2-side adhesion	Optically clear with excellent printability and ink adhesion.
Melinex® 715 Melinex® 725	125-250 (500-1000)	1-side adhesion 2-side adhesion	Optically clear films, pretreated on one or two sides for excellent adhesion to UV inks and lacquers.
Melinex® 726	175 (700)	2-side adhesion	Optically clear with superb adhesion to circuitry inks for MTS applications.
Melinex® TCH24UV	125 (500)	2-side adhesion	Clear, low bloom, with UV inhibitor for Touch and other Display applications.
Novel Developmental Films			
Melinex® PCS Melinex® PCS UV	125 (500)	None	Optically clear "Peelable Clean Surface" for high barrier films. Also available with UV stability.
Melinex® FR220	12-75 (48-300)	None	Halogen-free, Flame Retardant (VTM-0) clear handleable film.



Other development PET 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)

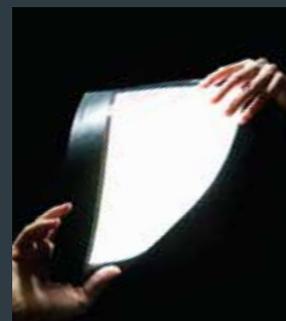
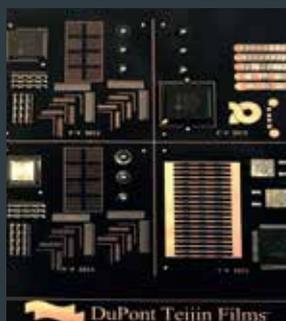
- films for circuit, graphics and spacer layers
- applications in automotive seat sensors, industrial and domestic equipment, keyboards, mobile phones

Flexible Electronics

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

FILM TYPE	THICKNESS MICRON (GAUGE)	SURFACE PRETREAT	TYPICAL APPLICATIONS
Novel Developmental Films			
Melinex® FR321	75-175 (300-700)	1-side adhesion	Halogen-free, Flame Retardant (VTM-0) optically clear film.
Melinex® D784	200, 250 (800, 1000)	1-side adhesion	Thermoformable PET, suitable for use in automotive, white goods, consumer electronics and In-Mould Electronics.
Kaladex® 2000	16-125 (63-500)	None	High performance PolyEthylene Naphthalate (PEN) film for circuitry and other applications where greater temperature resistance is required.
Fully heat stabilised optically clear films with very low shrinkage, where ultimate PET film performance is required			
Melinex® ST504	125-175 (500-700)	1-side adhesion	Optically clear with adhesion pre-treat, developed for ITO sputtering and other deposition processes.
Melinex® ST506	125-250 (500-1000)	2-side adhesion	Optically clear with excellent printability and ink adhesion suitable for MTS graphics and circuitry applications.
Melinex® ST507	50-125 (200-500)	None	Hazy film for FPC applications, ideal for use with low temperature solder reflow.
Melinex® ST725	125-250 (500-1000)	2-side adhesion	Optically clear film with excellent adhesion to industrial coatings, especially multi-pass UV curing.
Melinex® ST726	175 (700)	2-side adhesion	Optically clear with superb adhesion to circuitry inks for MTS applications.
Melinex® STCH21 Melinex® STCH22	50-100 (200-400)	1-side adhesion 2-side adhesion	Optically clear films with excellent handling properties. Pretreated on one or two sides, developed for ITO sputtering and other deposition processes. Suitable for MTS graphics and circuitry applications.
Melinex® STCH22UV	50-100 (200-400)	2-side adhesion	Optically clear, with UV inhibitor for Touch and other Display applications.

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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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