



Innovative Polyester *Films*
Electronics

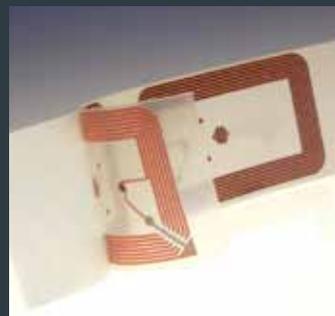
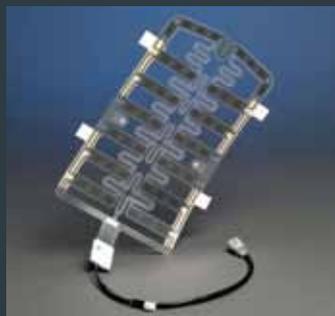
Delivering flexible substrates for
advanced electronics applications

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
- 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 MTS and FPC 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® 339	50-250 (200-1000)	2-side adhesion	White film with high opacity and excellent printability.
Melinex® 506	75-250 (300-1000)	2-side adhesion	Optically clear with excellent printability and ink adhesion.
Melinex® 715	125-250 (500-1000)	1-side adhesion	Optically clear with excellent adhesion to UV inks and lacquers.
Melinex® 726	125-175 (500-700)	2-side adhesion	Optically clear with superb adhesion to circuitry inks for FPC applications.
Melinex® TCH11	50-125 (200-500)	1-side index match	Optically clear, low bloom with anti-iridescence for touch-screen 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	125 (500)	None	Optically clear film with clean, defect free surface for material deposition.
Melinex® FR220	12-75 (48-300)	None	Halogen-free, Flame Retardant (VTM-0) clear film.
Melinex® FR321	100-175 (400-700)	1-side	Halogen-free, Flame Retardant (VTM-0) optically clear film.
Melinex® D784	200, 250 (800, 1000)	1-side adhesion	Suitable for use in Film Insert Moulding processes to produce modules for application areas such as Automotive, White Goods, Consumer Electronics, and In-Mould Electronics.



FILM TYPE	THICKNESS MICRON (GAUGE)	SURFACE PRETREAT	TYPICAL APPLICATIONS
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	Low bloom with adhesion pre-treat developed for ITO sputtering and other deposition processes.
Melinex® ST506	125-175 (500-1000)	2-side adhesion	Low bloom with excellent printability and ink adhesion suitable for MTS graphics and circuitry applications.
Melinex® ST507	50-125 (200-500)	None	FPC applications where solder reflow temps are near or above 150°C.
Melinex® ST510	125-250 (500-1000)	1-side adhesion 1-side index match	Low bloom with anti-iridescence and printable surfaces for touch-screen.
Melinex® ST726	125-175 (500-700)	2-side adhesion	Optically clear with superb adhesion to circuitry inks for FPC applications.
Melinex® STCH11	50-125 (200-500)	1-side index match	Low bloom with anti-iridescence for touch screen.
Melinex® STCH12	50-250 (200-1000)	2-side index match	Low bloom with anti-iridescence on both sides, for touch-screen.
Melinex® STCH21	50-100 (200-400)	1-side adhesion	Low bloom with adhesion pre-treat developed for ITO sputtering and other deposition processes.
Melinex® STCH22UV	50 (200)	2-side adhesion clear	Low bloom, with UV inhibitor for Touch and other Display applications.

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





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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