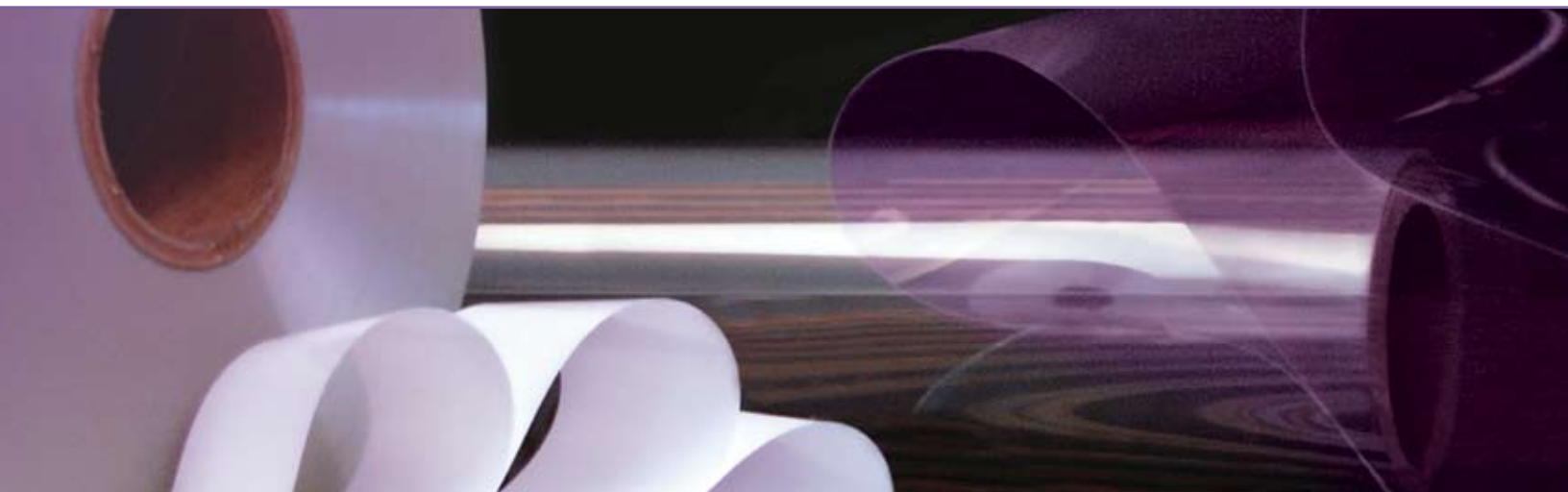


# POLYESTER FILMS >



Selection. Performance. Support.

# PET AND PEN FILMS >

For more than a decade, Tekra has proudly represented the DuPont Teijin Films brands of innovative PET and PEN film products. Tekra combines in-depth product knowledge and experience with the industry's largest and broadest PET and PEN film product offering. Plus, as an Authorized Distributor of DuPont Teijin Films, Tekra is uniquely positioned to meet the needs of markets ranging from membrane switches to medical diagnostics, labels to industrial specialties. For technical resolution to your polyester and PEN film needs, Tekra is your single solutions provider.

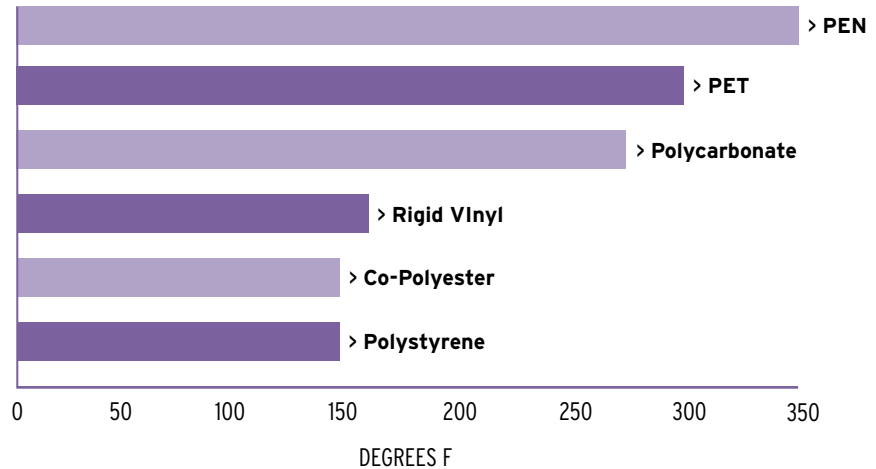


## FILMS TO MATCH THE APPLICATION >

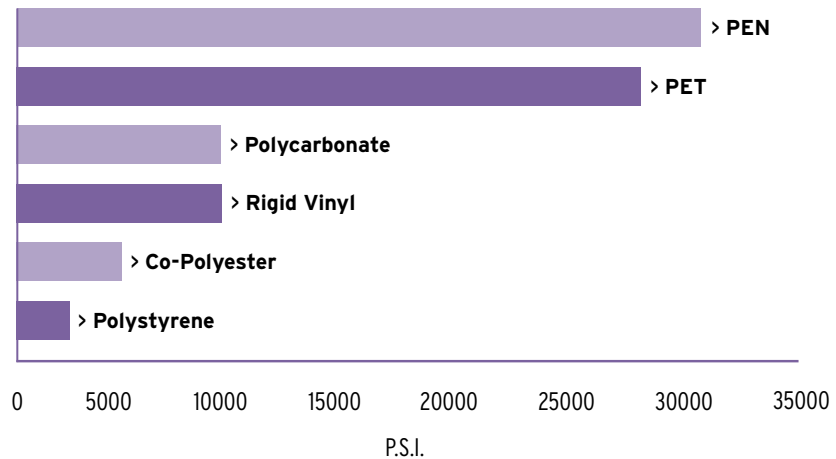
PET and PEN films from DuPont Teijin Films provide high-quality solutions for a wide variety of markets and applications throughout the world. Whether it's a medical diagnostic test strip, membrane switch on an appliance, touch screen on an industrial control, laminates for an identification card, or durable white labels for a host of consumer or commercial applications, Tekra has a film to match your needs. Under many application conditions, polyester films offer performance and durability advantages compared with other substrates.



### MAXIMUM UTILIZATION TEMPERATURE



### TENSILE STRENGTH AT BREAK



DuPont Teijin Films products are recognized for their exceptional optical clarity, brilliant white pearlescence, adaptability to harsh environments, and dimensional stability. Through manufacturing techniques tailored to the needs of specific applications, DuPont Teijin Films help our customers gain a competitive advantage. Specific products available from Tekra include the PET films Melinex®, Mylar® and Teijin® Teton®, plus Teonex® high-performance PEN films.

## MELINEX® POLYESTER FILM >

Known around the world and used in hundreds of industrial, electronic, printing, imaging, specialty and consumer products, Melinex® is a biaxially oriented polyester film from the DuPont Teijin Films family. At Tekra, we carry the broadest range of high quality Melinex® films in the industry today. Our comprehensive product inventory includes super clear, thermally stabilized, matte, hazy, and opaque white polyester films.



Film Type	Gauge Range	Benefits	Pretreatment
<b>Super Clear</b> > labels, decorative laminates, graphic overlays, membrane switch, ID cards			
453	92 – 700	printable, optical clarity, excellent handling	one-side solvent adhesion
454	92 – 700	printable, optical clarity, handling	two-side solvent adhesion
561	500 – 1000	die cuttable, printable	two-side solvent adhesion
725	500 – 1000	multi-uv printable, optical clarity	two-side solvent adhesion/ two-side uv curable
<b>Slightly Hazy</b> > flexible printed circuits, electrical laminates			
S	92 – 500	general purpose, rough surface, excellent slip	none
<b>Trans Matte</b> > casting / release, labels			
377	48 – 300	40% gloss for 92 ga, textured surface	none
378	75 – 92	20% gloss for 92 ga, textured surface	none
<b>Opaque White</b> > label facestock, tags, diagnostic test strips, prepaid cards			
329	92 – 1400	pearlescent appearance, brilliant gloss	none
339	200 – 1000	pearlescent appearance	two-side solvent adhesion
359	500 – 1000	laser printable	two-side adhesion

## MYLAR® POLYESTER FILM >

Invented in the early 1950's, Mylar® remains one of the world's most widely used polyester films. Its excellent balance of properties and extraordinary range of performance capabilities make Mylar® ideal for an array of applications in the electrical, electronics, industrial specialty, imaging, and graphics markets. Tekra offers Mylar® films uncoated or coated in a broad variety of thicknesses and widths.



Film Type	Gauge Range	Benefits	Pretreatment
<b>Very Clear</b> > labels, decorative laminates, graphic overlays, membrane switch, ID cards			
DL	92	clear optics, good handling	none
DL1	92 – 200	printable, optical clarity, good handling	one-side adhesion
KL	92	general, clear industrial film	none
KL1	92 – 200	printable, clear, good handling	one-side adhesion
<b>Hazy</b> > casting / release, labels, laminates, electrical, flexible printed circuits			
A	48 – 1400	general purpose, good adhesion & processibility	none
EC	500	semi-stabilized, balanced shrinkage, UL 94 VTM-2	none
EL	92 – 500	good dielectrics, handleability, UL 94 VTM-2	none

## MELINEX® ST POLYESTER FILM >

This premier line of “heat stabilized” polyester film is recognized as the industry’s flagship product for dimensional stability. Whether for printing close tolerance silver conductive inks for circuitry, or for aesthetic graphic overlays, customers can count on the consistency and dependability of these films. Tekra carries the industry’s largest stocked roll and sheet inventory of Melinex® ST products.

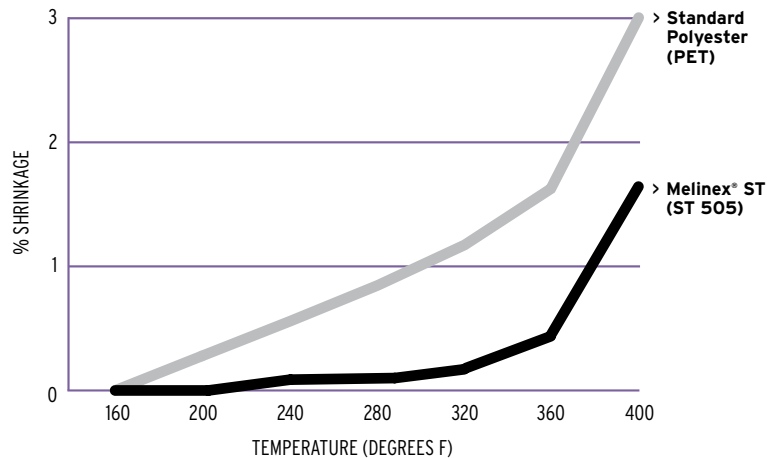


Film Type	Gauge Range	Benefits	Pretreatment
<b>Super Clear</b> > graphic overlays, membrane switch circuitry, medical test strips, touch screen displays, RFID tags			
ST504	500 – 700	heat stabilized, clear optics, UL 94 VTM-2	one-side adhesion
ST505	500 – 700	heat stabilized, clear optics, UL 94 VTM-2	two-side adhesion
ST725	700	heat stabilized, clear optics	multi-pass adhesion two sides; UV printing
ST730	500 – 1000	heat stabilized, clear optics	multi-pass adhesion two sides; UV printing
ST617	1000	heat stabilized, clear optics	two-side thick adhesion
<b>Very Clear</b> > ITO, displays, flexible electronics, membrane switches			
HLA*	200 – 500	heat stabilized, clear optics, UL 94 VTM-2	none
<b>Slightly Hazy</b> > flexible printed circuits, electronics, laminations			
SL*	200 – 500	heat stabilized, MD shrinkage <0.30%, UL 94 VTM-2	none
SLA*	200, 500	heat stabilized, UL 94 VTM-2	none
ST507	200 – 500	heat stabilized, UL 94 VTM-2	none
STXRF24	200	heat stabilized, RFID antennae	two-side solvent adhesion & aqueous
STXRF26	200	heat stabilized, RFID antennae	two-side solvent adhesion & aqueous
ST557	200	heat stabilized, MD shrinkage <0.02%, multi-UV pass	none
<b>Bright White</b> > medical test strips, labels, laminations, cards, industrial			
ST329	500 – 1000	heat stabilized, pearlescent white, flatness	none
ST529	200	heat stabilized, pearlescent white, flatness, UL 94 VTM-2	none
ST328	1400	heat stabilized, pearlescent white, flatness	two-side adhesion
ST339	500 – 1000	heat stabilized, pearlescent white, flatness	two-side adhesion

\* Teijin Tetoron® brand

Dimensional Stability: MD & TD shrinkage for all stabilized films is < 0.1% (150° C, 30 minutes) unless otherwise indicated.

THERMAL SHRINKAGE – STANDARD PET VS. MELINEX® ST



## TEIJIN® TETORON® POLYESTER FILM >

In addition to the well-balanced chemical and physical properties characteristic of the best PET films, Teijin® Tetoron® has earned a reputation for superior uniformity, consistency and environmental friendliness.



Film Type	Gauge Range	Benefits	Pretreatment
<b>Super Clear</b> > outdoor labels, UV absorbing			
HB3	100 - 300	super smooth film, uv absorber, low color / haze	one side slip treated
<b>Very Clear</b> > membrane switch, circuitry, imaging, ITO sputtering			
HLA	200 - 500	heat stabilized, clear optics, UL 94 VTM-2	none
<b>Slightly Hazy</b> > flexible printed circuits, membrane switches			
SL	200 - 500	heat stabilized, (MD < 0.30%), UL 94 VTM-2	none
SLA	200, 500	heat stabilized, UL 94 VTM-2	none

## TEONEX® PEN FILM >

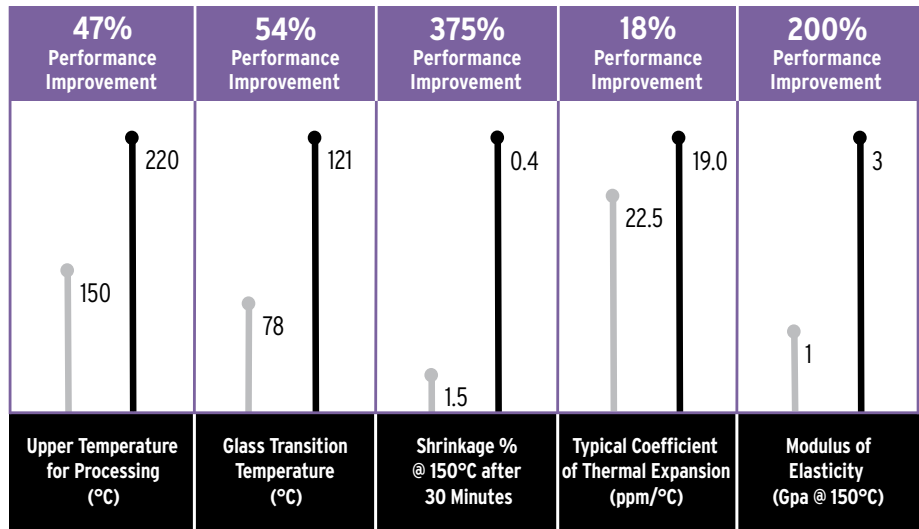
A biaxially oriented polyethylene naphthalate (PEN) film, Teonex® PEN film is designed for especially stringent conditions such as extreme heat or harsh chemicals, or for those applications where exceptional barrier performance is required. Teonex® films are perfect for high value-added applications in labels, laminates, circuitry and release.



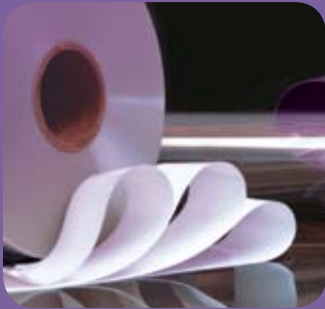
Film Type	Gauge Range	Benefits	Pretreatment
<b>Slightly Hazy</b> > harsh environment labeling, copper clad laminates, flexible circuitry, speaker coils			
Q51	48 - 1000	excellent dielectric & mechanical strength	none
Q51DW	100, 200	printable two sides, good handling	two-side primed
<b>Thermally Stable</b> > automotive seat sensors, flex circuits, soldering			
Q83	100 - 500	low shrinkage, good dimensional stability	none
<b>Super Clear</b> > optical displays, touch screens			
Q65	100 - 300, 500, 800	super clear optics, ultra smooth surface	one-side primed
Q65FA	500, 800	heat stabilized - low shrink, super clear	one-side primed

Product charts depict only a fraction of the DuPont Teijin Films PET and PEN products available from Tekra. Contact us at **800-448-3572** for complete information.

## PERFORMANCE OF TEONEX® PEN FILM VS. STANDARD PET



> Polyester (PET)    > Teonex® (PEN)



### ADDING PERFORMANCE TO POLYESTER >

Through our extensive manufacturing capabilities, Tekra applies coatings and adhesives to polyester films to create unique, performance-enhanced products that solve difficult application problems. Tekra's proprietary Marnot™ and ProTek™ hardcoated polyester brands offer superior abrasion, scratch and chemical resistance. Our Dura-Go® and DuraKote™ polyester-based films feature ink-receptive coatings for use on digital presses. And Tekra routinely laminates polyester films with adhesives from 3M to meet specific customer requirements.

### DISTRIBUTION PLUS >

With multi-location inventory of polyester films throughout North America, plus web-based logistical support, Tekra offers on-time deliveries, convenient ordering and competitive prices. But that's only a small portion of the value Tekra brings. Our laminating, slitting, sheeting and power-cutting capabilities are unmatched - whether for large or smaller orders. Most important, however, is the professionalism of Tekra's sales, customer service and technical staff. Virtually every day, we help guide customers to the ideal polyester films for their needs.

### COMPLEMENTARY PRODUCTS >

Tekra offers a one-stop shop for many popular plastic and adhesive products from the world's leading manufacturers. In addition to being the North American Authorized Distributor for the polyester films of DuPont Teijin Films, Tekra is a 3M Authorized Converter and Distributor as well as an Authorized Distributor for the polycarbonate film products of SABIC Innovative Plastics, including Lexan\*. We also offer a wide range of rigid vinyl, styrene, label stock and banner materials, as well as conductive inks from DuPont Microcircuit Materials. Whatever your film or adhesive requirements, look to Tekra.

# AVAILABLE PRODUCTS >

Hardcoated polycarbonate and polyester films  
Digital films for HP Indigo and toner based presses  
Adhesives (3M)  
Polyester films (DuPont Teijin Films)  
Polycarbonate films (SABIC Innovative Plastics)  
Rigid vinyl  
Styrene  
Label stock  
Masking  
Banner materials (Tyvek®)  
Conductive inks (DuPont Microcircuit Materials)  
Other plastic films available  
Custom coatings for your application

**FOR MORE INFORMATION:**

**800-448-3572**

[www.tekra.com](http://www.tekra.com)

ISO 9001:2000 Certified

SABIC  
Innovative  
Plastics™

سابك  
sabic

Authorized Distributor

**3M** Authorized Converter  
Authorized Distributor

 DuPont Teijin Films™

North American Authorized Distributor  
Exclusive Distributor to the North American  
Medical Diagnostics Market



#### HEADQUARTERS LOCATION

Tekra Corporation  
16700 W. Lincoln Avenue  
New Berlin, WI 53151  
Tel: 262-784-5533  
Fax: 262-797-3276

#### BRANCH LOCATIONS

Charlotte, NC  
Orange, CA

#### Additional Shipping Point

Franklin, MA

Tekra is a registered trademark of Tekra Corporation; ProTek, Marnot and Terrapin are trademarks of Tekra Corporation; Dura-Go is a registered trademark and DuraKote is a trademark of Hanita Coatings and Tekra Corporation; Melinex, Mylar, Teijin Tetoron and Teonex are registered trademarks of DuPont Teijin Films U.S. Limited Partnership; Lexan, Valox and Ultem are trademarks of SABIC Innovative Plastics IP BV; Tyvek is a registered trademark of E.I. DuPont

©2008 Tekra Corporation