Plastic Films • Adhesives • Coated Films
Industry Knowledge Leader

Tekra, A Division of EIS, Inc. is a manufacturer, precision converter, and distributor of plastic films and adhesives servicing all of North America and multiple international markets. Tekra supplies thousands of customers in markets ranging from general Graphics, Medical, Industrial, Digital, Appliance and Automotive to the Membrane Switch and Flexible Electronics industries.

For more than 80 years, Tekra has been perfecting our industry knowledge, strategic partnerships and proprietary manufacturing processes to best service our customers. Our technical expertise is second to none. It’s earned us the reputation as an Industry Knowledge Leader.

What has always – and continues to separate Tekra from its competition – is our ability to maximize film and adhesive performance while providing value-added results to benefit our customer’s bottom line… Tekra. Solutions made possible.

“Best in Class” Films and Adhesives

To provide the best solutions possible, Tekra is committed to excellence by:

- Maintaining strong key material supplier relationships who have a history of innovation.
- Offering the highest performing materials in the marketplace.
- Providing consistent outstanding technical support to customers.

Tekra is proud to be working with key strategic partners:

Most Popular Materials Stocked for JIT Delivery

Tekra maintains an extensive stock of the most highly requested materials – all available for immediate shipment from distribution centers strategically located around the country.

That’s the Tekra Just-In-Time Inventory and Logistics System at work. Delivery of what you need, when you need it.

In addition, Tekra works with a multitude of other “Best in Class” suppliers to provide additional high quality products such as rigid vinyl (PVC), polystyrene, synthetic films, Tyvek®, label stocks and protective tapes.
Tekra Manufacturing Capabilities Enhance Performance

Heightened performance characteristics in films and materials can often be the differentiating factor of a project’s commercial and technical success. Tekra’s customers look to our engineered coated products to provide value and functionality. Using one of our three coaters, Tekra adds layers of performance by applying proprietary coatings to plastic films that improves their scratch, abrasion and chemical resistance properties or, offers a different aesthetic look and feel.

For the digital print industry, Tekra adds proprietary print receptive coatings allowing film to be printed by various different digital print methods while improving ink adhesion and vibrancy.

Whether the solution comes from one of Tekra’s proprietary branded coated products or is custom developed by our fully staffed R&D lab, you can trust our coating innovation elevates plastic films to meet the highest quality and performance levels.

Coating Capability Inspires Ingenuity

Tekra has developed a wide range of proprietary coating formulations and can also develop custom coating solutions. Our fully staffed R&D department of chemists and engineers often work in conjunction with customers to develop unique, high-end custom coating solutions to meet the precise, and often complex, needs of OEMs.

### Plastic Substrate Coating Capabilities

<table>
<thead>
<tr>
<th>Coatings Applied</th>
<th>UV, solvent, waterbased</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating Viscosity</td>
<td>1-500 cPs</td>
</tr>
<tr>
<td>Wet Coating Thickness</td>
<td>1-50 microns</td>
</tr>
<tr>
<td>Maximum Coated Web Width</td>
<td>61 inches</td>
</tr>
<tr>
<td>Maximum Web Width</td>
<td>63 inches</td>
</tr>
<tr>
<td>Minimum Web Width</td>
<td>25 inches</td>
</tr>
<tr>
<td>Maximum Film Gauge</td>
<td>30 mil</td>
</tr>
<tr>
<td>Minimum Film Gauge</td>
<td>1 mil</td>
</tr>
<tr>
<td>Maximum Roll O.D. on Rewind</td>
<td>40 inches</td>
</tr>
<tr>
<td>Core I.D.</td>
<td>3, 6, or 10 inches</td>
</tr>
</tbody>
</table>

### Typical Coating Types

- Matte and Varied Textures
- Scratch Resistant
- Chemical Resistant
- Low Iridescent
- Anti-Glare
- Anti-Reflective
- Anti-Newton Ring
- Anti-Microbial
- Anti-Graffiti
- Anti-Static
- Hydrophilic
- Hydrophobic
- Light Diffusion
- Dry Erase
- Print Receptive
Tekra operators use state-of-the-art equipment and their years of knowledge to convert high value plastic films and adhesives to the tightest tolerances and specifications. They take great pride in quickly and efficiently converting large rolls into slit rolls or sheets – all with high yields for each and every job.

ISO 9001 certified since 1994, Tekra’s converting services include:

- **Slitting** – Converting rolls up to 63” wide and slitting them precisely to widths as small as one inch.
- **Sheeting** – Virtually any film or adhesive roll can be converted to nearly any sheet size while still maintaining tight tolerances for squareness.
- **Laminating** – Ability to apply secondary liners, protective masks and adhesives to one or both sides of a substrate.

### Converting Capabilities

- **Min. roll length**: 50’
- **Min./Max. substrate width**: 15”/58”
- **Max. roll O.D.**: 40”
- **Max. roll weight**: 2,000lbs
- **Substrate core I.D.**: 3, 6, 10, or 12”
- **Min./Max. laminate width**: 12”/57”
- **Max. laminate O.D.**: 17”
- **Laminate core I.D.**: 3” or 6”
- **Required trim**: Substrate 1/2” wider than laminate. To convert, 1/2” add. for adhesive coverage.
- **Tolerances**: ±1/4” edge wander

### LAMINATING - ROLLS

- **Min./Max. gauge**: 0.0092”/0.030”
- **Min./Max. bulk width**: 12”/63”
- **Max. bulk O.D.**: 40”
- **Bulk core I.D.**: 3, 6, 10, or 12”
- **Min./Max. finished width**: 1”/62”
- **Max. finished O.D.**: 30”
- **Finished core I.D.**: 3” or 6”
- **Max. laminate width**: 57”
- **Min. laminate O.D.**: 12”
- **Laminate core I.D.**: 3” or 6”
- **Required trim**: Varies by product. Maximum 20 cuts per master roll.
- **Tolerances**: Length: ±0, +1/2” under 48”; ±0, +3/4” over 48”; Width: Mill roll tolerance

- **Min./Max. gauge**: 0.002”/0.030”
- **Min. order**: 25 sheets
- **Min./Max. length**: 16”/72”
- **Min./Max. width**: 12”/60”
- **Required trim**: Add 1/2” for sheet length
- **Tolerances**: Length: ±0, +1/2” under 48”; ±0, +3/4” over 48”; Width: Mill roll tolerance

- **Min. roll length**: 50’
- **Min./Max. substrate width**: 15”/58”
- **Tolerances**: ±1/32” width, ±10% length
Coated Films

High Performance Coated Solutions

Since the installation of our first coating line in 1984, Tekra continues to develop and finesse a wide range of specially designed protective hardcoats on polyester, polycarbonate and other plastic substrates. Our product scope includes a wide variety of gloss and matte levels, as well as abrasion, chemical and UV resistance options… among other characteristics.

Tekra’s hardcoat brands include Marnot® XL, Marnot Advanced™ and ProTek®, which are used in applications ranging from membrane touch switch overlays to nameplates. Our Terrapin® brand hardcoat is often used in flat panel and LCD displays.

In addition to our standard product offerings, Tekra has the capability and technical expertise to develop unique, custom coatings for specific customer applications. Our in-house R&D department will work with you to quickly produce coatings that meet your precise and complex needs.

Tekra also toll coats customer supplied specialty substrates. Our coaters allow us to coat film with a thickness range of 1 mil (25 microns) to 30 mil (762 microns). Tekra also offers UV and thermal curing capabilities using solvent or water based coating technologies.

Digital Films

Achieving Next Generation Digital Printing

Tekra takes digital printing to the next level and offers an extensive range of print receptive coated films for a variety of digital printing. Our R&D department has perfected coatings for digital printers to offer value and functionality in making plastic printable on one or both sides. These coatings have been specifically designed for HP Indigo, toner, and a vast array of inkjet presses including UV, solvent, and latex.

If an end-use application requires a unique film or coating, our team of chemists and engineers can create it quickly with low minimum quantities.

Tekra’s high quality films deliver optimal printing performance with enhanced ink anchorage, full coating coverage, and an extended shelf life.

With digital printing being an on demand environment, Tekra stocks hundreds of optimized films, ready for print at distribution centers strategically positioned to serve North America. Polyester, polycarbonate, rigid vinyl (PVC), label stocks, polystyrene, static cling, and synthetics are available in various sheet and roll sizes.

Look for the following Tekra brands and learn how they can help your digital business grow.

- Optimized films for HP Indigo® presses
- Optimized for UV inkjet technology
- Optimized for latex inkjet technology
- Optimized for solvent inkjet technology
- Optimized for dry toner printers such as Xerox iGen® and Xeikon®
Melinex® and Mylar® Polyester Films

Embrace Exceptional Versatility

As an authorized distributor of DuPont Teijin Films™ polyester films, Tekra is a leading supplier of versatile Melinex® & Mylar® polyester, and high performance Teijin® Teonex® PEN film.

Offering superior optical, physical, mechanical, thermal and chemical properties, Melinex® & Mylar® polyester bring unmatched balance of functional performance to a variety of challenging applications. Printed Electronics, Flexible Circuitry, Optical Displays, Labels and General Industrial / Packaging end uses are all supported.

Tekra offers unique market expertise in Medical Diagnostics as the DuPont Teijin Films™ Exclusive Authorized Diagnostics Distributor serving North America. Our focused medical sales and marketing team provides OEMs and converters with consultative service for a wide range of medical film, biosensor conductive ink, and adhesive needs.

Melinex® & Mylar® polyester films are available in a full complementary range of film types and gauges (48 – 1400) including: clear, super clear, heat stabilized, slightly hazy, matte, hazy, translucent white and bright white opaque. In addition, Tekra carries a full line of value enhanced functional coated products for application on DuPont Teijin Films™ polyester films.

Potential Film Enhancements

- Extremely low shrinkage (<0.1%) to a desired heat seal (about 75%)
- Index matched to eliminate surface iridescence with functional hard coats
- Applied with chemical treatments for improved adhesion to various coatings, inks, & adhesives
- Modified surface textures from very smooth to desired roughness
- Co-extruded with different polymer layers for desired properties (i.e. A/B, A/B/A, etc.)
- Incorporated with surface-slip, anti-stat, anti-fog, or anti-glare properties

Market Focus

- Printed Electronics
- Medical Diagnostics
- Flexible Circuitry
- Optical Displays
- Labels
- Industrial Applications

Melinex® and Mylar® Attributes

- Brilliant, Clear Optics
- Excellent Mechanical Strength
- Outstanding Dielectric Properties
- Good Flatness and Coefficient of Friction
- Tear or Puncture Resistant
- Chemical Resistant

Henkel Loctite® Conductive Ink Materials

Functional Performance Versatility

Tekra has partnered with world class science and engineering pioneer, Henkel Electronic Materials (Henkel), as an authorized distributor for Loctite® brand of conductive inks and conductive coatings. Our association provides customers collaborative technical support encompassing the full range of conductive ink material compositions.

Tekra carries a wide variety of silver, silver-silver chloride, carbon resistor & dielectric ink compositions that are complementary to the printed electronics, printed resistor & heating elements, biomedical sensors, RFID antennae / labels, flexible display and related markets.
3M Adhesives

Delivering a Competitive Advantage

3M is a world leader in innovative solutions devoted to rapidly changing technologies. Tekra is proud to be designated as a 3M Master Converter.

Our relationship with 3M spans decades and provides us access to a wide selection of adhesive products. Pairing our accessibility to 3M resources with our technical ability enables us to deliver “Best in Class” adhesive solutions.

Because we stock bulk rolls of 3M’s most popular products, we are able to custom convert orders on demand. This allows us the ability to offer less than full master rolls on our stocked products with no additional upcharges. Custom blanket stocking arrangements can also be extended further ensuring you’ll have materials when you need them.

At Tekra, we embrace unconventional product needs. Tekra’s manufactured line of hardcoats and print receptive coatings can be applied to further enhance 3M’s already diverse line of products – including 3M™ Single Coated Tapes, 3M™ Performance Label Materials and 3M™ Commercial Solutions products.

Our ability to custom convert 3M material to exact specifications in a timely fashion is second to none. In addition to custom laminations, Tekra offers slitting, sheeting and power cutting options.

LEXAN™ Polycarbonate Films

A Preferred Brand for Graphic Industries Worldwide

Tekra’s focus on polycarbonate film ensures a level of expertise in converting and technical product support that is unmatched in the industry.

As an authorized distributor of SABIC Innovative Plastics, Tekra offers the SABIC line of LEXAN™, VALOX™ and ULTEM™ polycarbonate films. Available in a variety of finishes, textures, colors and gauges, these industry-leading materials deliver outstanding performance and versatility across multiple market segments.

LEXAN™ polycarbonate film excels in outstanding optical clarity, printability, impact strength and dimensional stability when compared with other types of plastic films. It also offers high temperature resistance and superb workability for secondary processes such as die-cutting, embossing and thermoforming.

LEXAN™ graphic films are available in a variety of surface textures including gloss, matte, velvet and suede, while LEXAN™ High Performance coated films feature polished and matte textures, increased scratch, chemical and UV resistance. LEXAN™ FR, VALOX™, and ULTEM™ are flame retardant polycarbonate films, offering consistent insulation and printability properties.

Tekra stocks a variety of LEXAN™ polycarbonate films (5 mil to 30 mil) in both rolls and sheets. Custom sizes can be converted to order.
When product viability and effectiveness matter, one leader stands out. Tekra is “Best in Class” for high performance plastic films, premiere adhesives, and the science of coating. Trust the Industry Knowledge Leader.


Markets
Medical Market
Digital Print Market
Graphic Films & Adhesives Market
Membrane Switch Market
In-Mold Decorating Market
Flexible Electronics Market
Computer and Digital Displays Market
Appliance Market
Automotive Market
Point-of-Purchase (POP) Market
Industrial Films & Adhesives Market

Products
Films
Polyester
Polycarbonate
Hardcoat Polyester & Polycarbonate
Digital Printing
Rigid Vinyl (PVC)
Polystyrene
Medical
Adhesives
3M™ Adhesive Transfer Tapes
3M™ Single Coated Tapes
3M™ Double Coated Tapes
3M™ Foam Tapes
3M™ Medical Materials & Technologies
3M™ Performance Label Materials
3M™ VHB™ Tapes
3M™ Commercial Solutions
3M™ Membrane Switch Spacers
3M™ Reclosable Fasteners
Conductive Inks
DuPont Tyvek®
Protective Tape