



# What Is Polyester Film Used For?

## *Tekra Fundamentals*

### What are common applications for polyester film?

Melinex® & Mylar polyester films have a wide range of uses. Read more about common applications for polyester film, as well as reasons why you should use polyester over other film types.

- **Printed Electronics:** [Melinex® ST polyester films](#) are thermally stabilized at 150°C for 30 minutes (MD/TD shrinkage at <1%) to ensure proper registration and performance of silver conductive inks.
- **Optical Displays:** [Melinex® 453](#) is a high clarity film with one side pre-treated to promote adhesion to most printing inks and industrial coatings. Look to [Melinex® 454](#) for coating on both sides.
- **Flexible Electronics:** [Melinex® ST polyester films](#) can serve as the printing shorting pad layer and the bottom circuit in Flexible Electronics applications, including membrane switch circuitry.
- **Medical Films:** [Medical film](#) applications include diagnostic test strips, transdermal patch components, medical face shields, microfluidic assays & medical labeling.
- **Cast and Release:** The action of “release” can be accomplished through the addition of a chemical coating (i.e. silicone), the most common product film type is called: [Mylar® RSXR951](#); or via a mechanical process of adding fillers to the base polymer package.
- **Tags & Labels:** Many products in the Melinex® & Mylar® work as a print receptive base for pressure sensitive labels.
- **Electrical Components:** Mylar® and Melinex® polyester and Kaladex® PEN films offer high dielectric strength, thermal endurance, and thermal and electric barrier resistance.
- **Print Applications:** Films treated to be compatible with screen, offset, and lithographic print methods. Additional coatings can be added to polyester to make them compatible with [digital printing](#).

## WHAT IS POLYESTER FILM USED FOR?

### *Tekra Fundamentals*

- **General Industrial:** [Mylar A](#) is a general purpose polyester film ideally suited for industrial or general purpose applications, including stencils.

## Why should you use polyester over other films?

---

- **High tensile strength, impact and tear resistance:** Use polyester for card and POP applications over vinyl for increased durability
- **Superior Continuous Use Temperature:** The ability to withstand continuous temperatures as high as 300°F, polyester outperforms other film types in temperature resistance
- **Inert to most chemicals:** Naturally more chemical resistant than other thermoplastic films
- **Broad Gauge Range Functionality:** manufactured in gauges ranging from 48 gauge (0.48 mil) to 1400 gauge (14 mil), polyester presents a wide performance window. Thinner gauges offer a cost advantage to other thermoplastic films
- **Surface treated based on application:** Print treated for adhesion promotion, slip treated for handle-ability, anti-stat, anti-fog, anti-glare, and more

## More Questions?

---

- Check out [Application Spotlight - Applications by Media Type](#) to evaluate the best media type for your next project.
- [Contact us](#) online or call 800-448-3572.