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.