

High Performance Tapes and Fabrics are designed for high temperature, corrosive and electrical applications - made from a variety of films and fabrics.

High Performance tapes consist of many types of films, fabrics, and adhesives. The special characteristics of this family of tapes make them ideally suited for temperature extremes, chemical resistance, abrasion and tear resistance, non-stick applications, low coefficient of friction, and electrical/electronic special dielectric areas, or any combination of these.

Formulations:

SKIVED TEFLON: Offers higher elongation and greater conformability. Strength is good, abrasion resistance and low friction properties make skived Teflon a versatile choice in many applications.

HIGH MODULUS SKIVED TEFLON: A combination of low elongation, high tensile strength and excellent dielectric strength makes high modulus PTFE an excellent insulation tape. Used in the composite industry for taping contours, and the packaging industry

HIGH MODULUS EXTRUDED TEFLON: The excellent conformability and release properties of the Teflon backing along with the high temperature clean release silicone adhesive make this tape perfect for composite lay-up, roller wrapping, plate masking and other applications where costly clean up is a problem.

ORIENTED PTFE: The high temperature resistance and durability and anti-stick properties of oriented PTFE make it ideal for use as a release surface. It is used as the release surface for heat sealers during portion packet packaging.

FEP TEFLON FILM: Has many of the properties of PTFE, but is optically clear and limited to applications with temperatures under 400 F. FEP film should be used when optical clarity is required.

KAPTON POLYIMIDE: Provide the best class 180 insulation available. Typical applications include splicing and wrapping of cables and wires. Also as masking for wave soldering of printed circuit boards. They also offer superior dielectric strength, and excellent tear and abrasion resistance.

PTFE/GLASS FABRIC: Teflon coated fiberglass fabric is designed to operate in demanding temperature and chemical environments. The unique properties of Teflon, combined with the exceptional strength and durability of glass fabric, make this material very well suited for a variety of industries, including packaging, aerospace, automotive and electronics.

CONDUCTIVE PTFE / GLASS FABRIC: Possesses conductive properties and can be grounded to eliminate static electricity.

FOIL GLASS: The high temperature resistance of foil glass makes it an ideal plasma or flame spray masking tape. It can withstand temperatures up to 500 F without slipping. Because of its strength and flexibility, foil glass is used by the aerospace and automotive industries as a wire harness bundling tape in engine components. This allows for easy wrapping of complex shapes and minimizes wrinkling during the flexing of cables.

SILICONE GLASS: Silicone glass is the ideal product for the thermal spray industry. It is made from a flame retardant silicone rubber/glass cloth fabric which is coated with a high temperature adhesive. It can withstand high temperatures while remaining abrasion resistant and highly conformable.

ALUMINUM FOIL: Are available in a variety of thickness', coated with either acrylic or silicone adhesive.

GLASS FABRIC: Is the optimal combination of versatility, high temperature performance and economy when the chemical and physical properties of Teflon and silicone are not required. Ideal for many electrical and mechanical applications.

UHMW/POLYETHYLENE: Is more abrasion resistant than PTFE films. It resists puncture and gouging under pressure and load. It is the ideal material to prolong the life of conveyor belts and protect chute guide rails and bearings. UHMW is the ideal material for preventing squeaks and rattles. It is FDA approved and suitable to temperatures up to 225 °F.

Note: Not all formulations are available in every configuration

Shape: Rolls, strips, spools, sheets, die-cut and fabricated parts

Finish: Smooth to very smooth (depending on the type of material)

Thickness: .001" - .125" (depending on the particular type of material)

Width: Less than 1/8" - 56" (depending on the particular type of material)

Length: 18, 36 to 72 yards are the most common (virtually unlimited on a custom basis)

Color: N/A

Packaging: Individually boxed, bagged, or bulk packed

Typical Applications:

- Packaging - heat sealing, non-stick surfaces
- Aerospace - electrical / electronic insulating
- Composite Manufacturing - lay-up and masking areas
- Computer Manufacturing - wave soldering of printed circuit boards and wiring insulation, grounding devices
- Automotive - anti-squeak and rattle, electrical insulation, wear areas
- Food Processing - direct food contact, anti-stick and wear applications
- General Manufacturing - corrosion resistant areas, slide and wear applications involving conveyors and slides, flame spray masking

General Characteristics:

- Available with acrylic or silicone adhesive
- High temperature resistance, depending on the material
- Chemical resistance
- Electrical insulation and dielectric properties, depending on the material
- Low coefficient of friction
- Tear resistance
- Abrasion resistance
- Conformable, depending on the material