

EPT XTRM PLY® Linear Low Density Polyethylene (LLDPE)

EPT's **LLDPE** is specially engineered for superior tensile strength and stiffness with high resistance to chemicals and UV. The composite, designed primarily for geomembranes, but suitable for other LLDPE applications, is available with two scrim reinforcements (tri-axial and woven polyester), depending on the strength and flexibility needed for the project. The material, sold in black with exclusive repetitive dimple texture for uniform support and stabilization and improved frictional performance, is available in 20, 30, 36, 45, and 60 mil at 120" (10 feet). LLDPE width and flexibility allows it to be factory fabricated ahead of time under controlled conditions, producing more consistent welding and reducing installation expenses. It is ideal for use in solid and hazardous waste landfills, Subtitle C&D landfills, mining and industrial and municipal water and wastewater treatment and numerous energy generation applications.

EPT XTRM PLY® LLDPE BENEFITS:

- Superior flexibility over HDPE
- GRI-GM17 Standard Specification Compliant
- Chemical and UV resistant
- Superior puncture resistance when compared to non-reinforced fabrics
- Two scrim options based on strength and flexibility requirements
- Reinforced for steeper slope design
- Low temperature flexibility
- Encapsulated edges
- Available at 120"

EPT XTRM PLY® Thermoplastic Polyurethanes (TPU)

EPT's XTRM PLY Thermoplastic Polyurethane (TPU) are offered in both ether or ester versions. **EPT XTRM PLY® TPU** products are available as reinforced membranes (3+ ply). Some of the applications that currently utilize **EPT XTRM PLY® TPU** are high-performance U.S. military grade berm liners, fuel and water pillow tanks, air containment membranes, drop drums, commercial and NAVFAC spill containment booms, and dock seals and shelters. Products can be provided in widths up to 120".

EPT XTRM PLY® TPU BENEFITS:

- High abrasion resistance
- High tear, tensile & puncture resistance
- Excellent flexibility at low temperatures
- Weldable by heat, RF, solvent & wedge
- Extremely low Coefficient of Friction (CoF)
- UV Resistant
- Potable salt and gray water resistant



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ENGINEERED
POLYMER
TECHNOLOGIES

Quality and innovation that exceeds expectations.

Polymer Solutions Designed For High-Performance Applications.

We are Engineered Polymer Technologies.

Engineered Polymer Technologies (EPT), a division of Ronald Mark Associates, Inc., was founded in 1974 as a U.S. manufacturer of Polymer Film/Sheet and Coated Fabrics. We utilize the latest in polymer chemistry and textiles to provide our customers with superior products and services.

Through the use of our proprietary manufacturing process, **EPT** can meet the exacting needs of various specifications and applications. Our unique process allows us to produce supported and unsupported products in a thickness range of 1.6 mil to 120 mil and in widths up to 120" (3.05 m). **Polymer options include, but are not limited to:** Ethylene interpolymer alloy (EIA), Polyvinyl chloride (PVC), Thermoplastic polyurethane (TPU), Linear, low-density polyethylene (LLDPE), Thermoplastic polyolefin (TPO)/ Polypropylene (PP), as well as specialty polymer products such as Mass Loaded Vinyl (MLV) and Anti-Stat (ESD) films. Supported products can be reinforced with a wide array of fabrics (woven, knit, non-woven, etc.) that utilize commercially available yarn technologies which include polyester, nylon, fiberglass and assorted aramids.

For more information on EPT Polymers and Fabrics, call us at 908-558-0011 or visit www.epftech.com.

GEOMEMBRANES

SPILL CONTAINMENT

INDUSTRIAL RACK TAPE

TREADWAY

EPT | Manufacturer of XTRM PLY Brand of Sheeting & Fabrics



XTRM PLY EPS WRAP



STAT-SAFE

Ethylene Interpolymer Alloy (EIA) / Ketone Ethylene Ester (KEE)

For over 25 years, EPT has offered products engineered with Ethylene interpolymer alloy (EIA). EIA is a high performance product formulated with DuPont's Elvaloy® /Ketone Ethylene Ester (KEE). This polymer allows our XTRM PLY® EIA to achieve some of the highest levels of protection for applications requiring petrochemical resistance, such as geomembranes (primary/secondary containment). EPT XTRM PLY® EIA/KEE composites have been used for a variety of applications around the world, from wastewater lagoons to hazardous waste impoundments. EPT has the knowledge and experience to help meet your needs.

EPT XTRM PLY® EIA/KEE products can be formulated with enhanced UV protection and are excellent for containing hydrocarbons as well as a wide variety of acids and chemicals. EPT XTRM PLY® EIA/KEE products are hot and cold resistant, providing the highest levels of dimensional stability. Fabric reinforcement provides improved physical strength characteristics such as high tear properties, extreme puncture, and superior breaking strength. EPT XTRM PLY® EIA/KEE products are available in both sheeting (1 ply) and reinforced sheeting (2+ ply) with a thickness range from 8 mil to 120.0 mil. EPT XTRM PLY® EIA/KEE provides versatility for your welds and seals, overlaps, or difficult areas that some reinforced products cannot accommodate.

EPT XTRM PLY® EIA BENEFITS:

- Industry-leading chemical resistance
- Excellent outdoor service life
- High operating temperatures (225°F continuous/250°F intermittent)
- BPA-Free
- Weldable by: heat, RF, adhesive, solvent & wedge
- Available with encapsulated edges
- Available in widths up to 120"
- Up to 20 years Warranty Available



SOUNDSAFE MLV



MILITARY

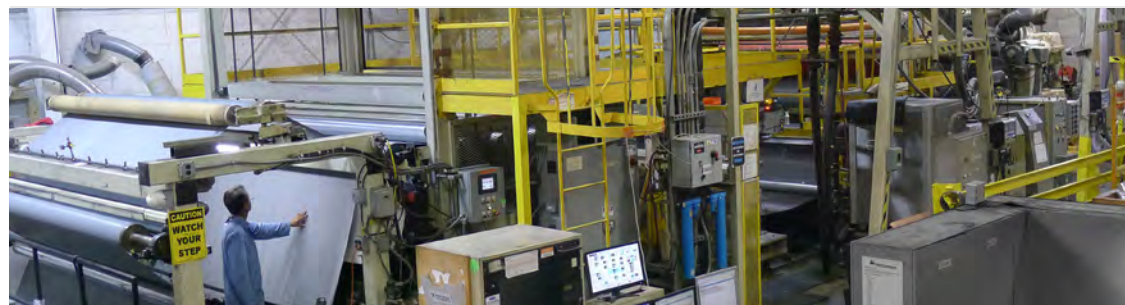
EPT XTRM PLY® Polyvinyl Chloride (PVC)

With over 40 years of PVC experience, EPT offers flexible Polyvinyl Chloride (PVC) products that provide an economical and practical option for many applications. Our products are available in both Film/Sheeting (fPVC 1 ply) and Reinforced Fabrics (rPVC 2 and 3 ply). Thickness range for PVC Film/Sheeting is between 1.6 mil and 120.0 mil, while our Reinforced PVC Fabrics begin at a weight of 5.0 oz/yd². Capabilities for both include a width range from 1" to 120" (depending on product).

Applications include but are not limited to: military; primary and secondary containment liners; laminating films; high visibility safety flags; tapes; protective garments; covers/tarpaulins; air containment; and single ply roofing membranes. Custom formulations, color matching (including fluorescent colors), variety of base fabrics (where applicable), and a selection of embossing are available to meet a wide range of requirements.

EPT XTRM PLY® PVC BENEFITS:

- 1.6 mil to 120.0 mil thickness
- Available up to 120" wide
- Good chemical resistance
- Available BPA-Free
- Available Phthalate-Free
- UV and Flame resistant available
- Weldable by: heat, RF, adhesive, solvent & wedge



(LEFT) QC on the production line; (RIGHT) Comprehensive R&D/Testing Fabric Laboratory



Industry Leader in Quality and Innovation

EPT is focused on customer satisfaction by offering the best technology available. We utilize concurrent engineering methods to decrease our product development cycle, thereby accelerating delivery of new products to the market. Our R&D and Quality Control/Testing Departments work collaboratively to develop innovative product solutions based on specific customer needs, ranging from color matching to specialty polymer/fabric selections. We are always available to discuss new products with our customers, and partner with suppliers and fabricators on innovative solutions. **Contact us today to discuss your next project.**

EPT BRANDS OF
COMPOSITES & FABRICS:

XTRM
EPS WRAP
The PRG Protection for EPS Geofoam

XTRM
SOUND SAFE | FR
FLAME RETARDANT ACOUSTIC BARRIER

STAT-SAFE™
STATIC DISSIPATIVE FILM

TREADWAY™
TRACTION AND GRIP

XTRM
PLY
INDUSTRIAL RACK TAPE