

## PRG Protection for EPS Geofoam.

**EPS Geofoam** is becoming increasingly important as a lightweight alternative to soil and gravel when used as structural backfill in highways, bridges, embankments, and parking lots. Geofoam is not compatible with petroleum products. **E Squared** has developed **EPSWrap™** to protect the Geofoam from potential exposure from fuel or chemical spills.

**E Squared EPSWrap™** is composed of a reinforced, petroleum resistant geomembrane (PRG) fabric. In addition to acting as a sealed barrier for the Geofoam, **EPSWrap™** provides the necessary ruggedness required to handle the loads created by covering the EPS Geofoam with soil and gravel.

*"One of the added benefits of the PRG geomembrane, such as **E Squared [EPSWrap™]** is that, due to its inherent flexibility, it can be prefabricated into large panels by a qualified fabrication facility, taking advantage of a climate-controlled environment. This allows fabricators to seam, test the seams, fold/package and ship to the jobsite in large panel sizes, minimizing or even eliminating more problematic field seams, which would otherwise need to be done in the elements, and subject to site conditions."*

*– Mark DeSandre, geomembrane sales manager, Frank Roberts and Sons, Inc.*

**E Squared** geomembrane fabrics are engineered to have extreme tear, puncture and tensile resistance while performing in sub-zero temperatures, extreme heat and UV exposure. This performance capability is there whether you are containing water, carbon-based or hazardous waste materials.

For more information on **E Squared** products, call us at 908-558-0899 or visit [www.e2techtexiles.com](http://www.e2techtexiles.com).

### EPSWRAP PROPERTIES

- Over 600 Pounds Tensile Strength
- Extreme Puncture Resistance - 800 pounds
- Highest level of Tear Resistance
- Min. Tear Propagation – 200 pounds Trap Tear
- Encapsulated Edges
- Enhanced Petro-Chemical Resistance (Dow Elvaloy® Content)
- 20-Year Warranty Available
- Meets VDOT and NYSDOT Requirements for Geofoam Protection

# E Squared EPSWRAP™ is designed to protect Geofoam if it is exposed to the following chemicals:

CHEMICAL	WITHOUT PROTECTION	WITH XTRMPLY EPSWRAP PROTECTION
<b>Hydrocarbons</b> <i>(Methane, Gasoline, Diesel, Kerosene)</i>	Poor	Excellent
<b>Vapors/Liquids</b>	Poor	Excellent
<b>Household Liquid Spray Insecticide</b> <i>(Non-aqueous)</i>	Poor	Excellent
<b>Bleach, Methylene Chloride, Ethylene Glycol, Methyl Alcohol, Ethyl Alcohol</b>	Poor	Excellent



## EPSWRAP TYPICAL PHYSICAL PROPERTIES

### Thickness

ASTM D751, 45 MIL

### Grab Tensile Strength

ASTM D751, 650/650 lbs. (4x8 in.)

### Elongation at Break

ASTM D751A, 20% min

### Trapezoid Tear

ASTM D4533, 200/200 lbs.

### Toughness

14,000 lbs.

### Shear (Grab)

ASTM D751, 550 lbs.

### Adhesion, Weld

ASTM D751, 45 lb./2 in.

### Puncture Resistance – Ball Tip

ASTM D751, 800 lbs.

### Pass Cold Crack

ASTM D2136, -30F (1" Mandrel)

### Vapor Transmission

ASTM D814

– Unleaded Gasoline with Ethanol (<=10%).  
0.268 oz./24 hr./ft2

– Unleaded Gasoline with Ethanol, 0.267 oz./24 hr./ft2

– Diesel Fuel,  
0.043 oz./24 hr./ft2

**NOTE:** Product specifications are typical values. Actual results may be higher.

For technical questions regarding specifications, please contact us at [info@e2techtextiles.com](mailto:info@e2techtextiles.com).

Proud member of the following associations:

