



PRESS RELEASE

19 Leonberg Rd., Cranberry Township, PA 16066 • Phone: 724-776-4044 • Fax: 724-776-4045

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CONTACT: Jeff Meek, U.S. Liner Co., (724) 776-4044
Scott Collins, Marketing Communications, (216) 382-8840

New Thermoplastic Composite for Scuff and Wall Liners Is Stronger, Lighter Than FRP and Costs Less

A new laminated thermoplastic composite sheet from U.S. Liner Company is ideal for truck body and truck trailer applications, including refrigerated wall panels, scuff liners, and dry freight walls. Called Versitex[®], it provides twice the impact protection of conventional fiberglass-reinforced polyester (FRP) panels, is lighter in weight and costs less. Available in a wide range of thicknesses and widths, and virtually any length, Versitex sheets are also suitable for use in rail, recreational vehicles, shipping and storage containers, automobiles, building and construction supply, military structures and equipment, and other applications.

Versitex was developed using an entirely new manufacturing process. Non-woven continuous glass fibers are impregnated with polypropylene and laminated to create a thin, tough, bi-directional structure that has many benefits:

- Lightweight
- High strength
- Low cost
- Expansion/contraction comparable to aluminum
- Easy to install and repair
- Heat-formable
- Completely recyclable

“For years,” says Jeff Meek, Director of Sales & Marketing, “manufacturers of dry freight and refrigerated trailers have known Bultex[®] as the alternative to fiberglass (FRP)

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wall and scuff panels. Since its introduction in 1998, this woven-glass composite has set the industry standard for toughness and impact resistance. The only thing preventing Bulitex from making FRP entirely obsolete has been the price. It's a premium product at a premium price. Finally, though, there's another choice called Versitex. Versitex will become the new high-performance standard, replacing FRP, plywood, recycled plastics, oak, steel and aluminum."

The glass-reinforced thermoplastic properties of Versitex panels provide significant energy absorption, reducing cracks and punctures. Versitex is superior to all conventional materials used in similar applications, yet it costs less. Compared to other materials, 0.080-inch-thick Versitex V4 is lighter in weight and many times tougher than plywood. Compared to FRP that is four times as thick, Versitex is at least twice as tough, lighter in weight and is priced competitively.

The results of laboratory testing showed multi-axial impact strength of 10.8 ft-lbs for Versitex V4. Other key mechanical properties include: tensile strength of 33.5 KSI; tensile modulus of 1.5 MSI and tensile elongation of 2.6%. The thermal expansion/contraction values (10^{-6} inch/degree F) are comparable to those of aluminum. In addition, Versitex resists rot, corrosion and mildew and is not affected by cleaning chemicals.

Versitex sheet is available in a variety of thicknesses and widths up to 108". It is normally supplied in bulk coils up to 1200 ft. It can be cut using a circular saw with carbide-tipped blade and can easily be sheared, routed or drilled for simple installation. And, because it is made using thermoplastic polypropylene, it can be formed into even complex shapes, or welded with no loss of strength.

Headquartered near Pittsburgh, in Cranberry Township, PA, U.S. Liner Company, is a division of American Made, LLC, which was founded in 1983. Since 1998, the company has been a leading supplier of composite materials that are widely used in the truck/trailer market and supports an ever-widening range of applications in the automotive, RV, rail and intermodal transportation, building products, and military markets.