

Versitex[®]

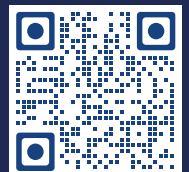
ADVANCED THERMOPLASTIC COMPOSITE



- LIGHTWEIGHT & HIGH-STRENGTH
- MOISTURE & SOLVENT-RESISTANT
- CORROSION-RESISTANT & HEAT-FORMABLE
- FULLY RECYCLABLE
- ENHANCED THERMAL & SOUND INSULATION
- EASY INSTALLATION & REPAIR
- LOW-MAINTENANCE CLEANING

TRANSTEX[®]

transtex-llc.com

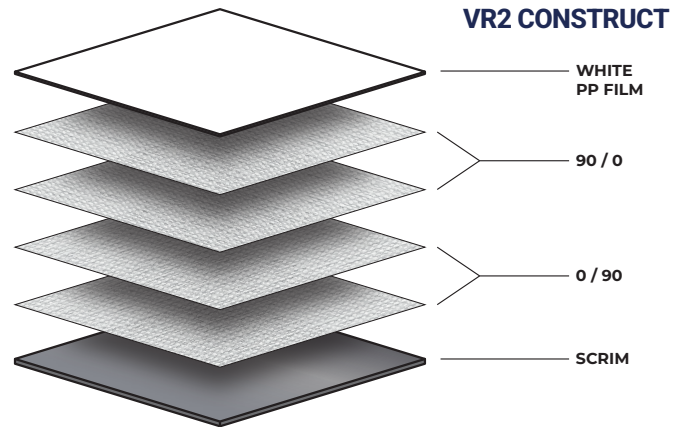


Manufactured to be Tough

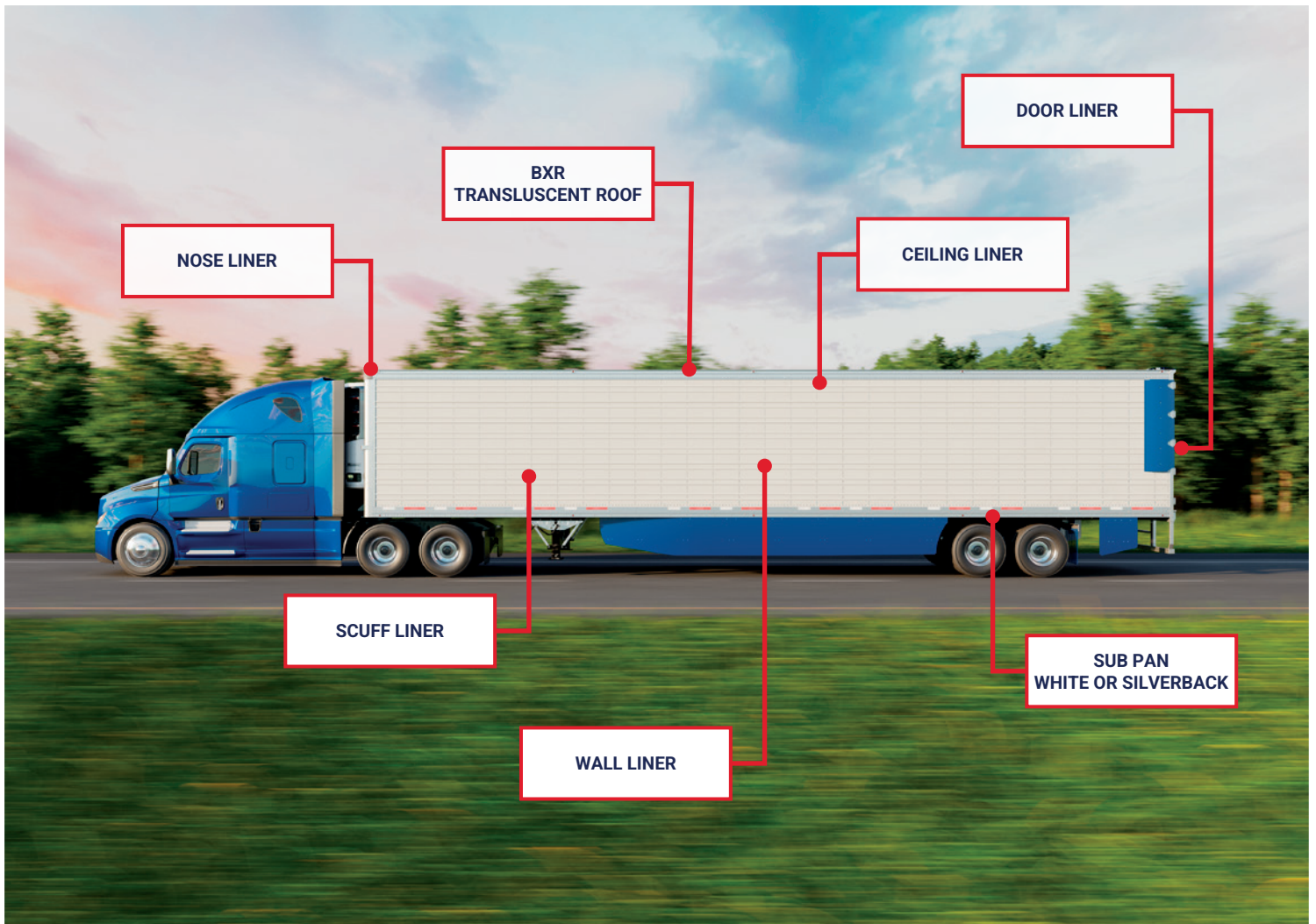
The strength of Versitex® lies in its advanced manufacturing process. Continuous glass fibers are combined with polypropylene to form unidirectional sheets, which are cross-plyed and laminated. This process delivers a highly durable material that can withstand corrosion, moisture, and exposure to common cleaning chemicals, even in the most demanding conditions.

Versitex® sheets can be manufactured with an optional fabric backing or bonding film to improve adhesion to injected or poured foam systems. This feature supports the development of lightweight, high-performance panels suitable for refrigeration and insulation applications. Our products can also be drilled, fastened, or riveted for added versatility.

Depending on the final size and thickness required for an application (from 0.040 inch to 0.200 inch), Versitex® can be rolled into coils up to 1,200 feet in length or cut into sheets and palletized.



The layers are oriented in a 0/90 degree ply. Various thicknesses are achieved by adding more layers into the process. This matrix provides the best cost/performance ratio available.



The Versitex® Competitive Advantage



Fully Recyclable



Easy to Repair



Cost Effective Solution



Lighter Weight

Versitex® is a lightweight material that offers reliable impact resistance, making it an excellent choice for performance-critical applications. Engineered from thermoplastic polypropylene through a proprietary process, it ensures consistent quality and dependable strength. Its bi-directional composite structure enhances durability by providing reinforcement in multiple directions. Versitex® is easily formable into complex shapes, offering broad design flexibility and customization potential. It can also be overmolded to

incorporate built-in structural features, helping reduce part count and simplify assembly. Fully recyclable, it supports sustainable manufacturing and environmentally conscious design strategies. Designed to perform in tough, high-demand environments, Versitex® delivers the resilience and versatility required where reliability matters most. Explore the technical data below for complete performance specifications.

TECHNICAL DATA

Property	Test standard	VR1	VR1.5	VR2	VR3	VR8	VR10	Units
Flexural Strength (direction 0)	ASTM D790	13040	31200	51180	43340	39160	39940	psi
Flexural Strength (direction 90)	ASTM D790	9730	10390	21860	25500	33680	36380	psi
Energy absorbed at peak load	ASTM D3763	N/A	N/A	13.36	14.84	55.12	53.06	J
Glass content (by weight)	ASTM D3171*	44.5%	38.5%	48.2%	51.1%	50.7%	53.5%	%
Nominal thickness	N/A	0.036 ± 0.005	0.038 ± 0.005	0.060 ± 0.005	0.080 ± 0.005	0.180 ± 0.010	0.200 ± 0.010	in
Surface density	N/A	0.21 ± 0.01	0.21 ± 0.01	0.38 ± 0.02	0.54 ± 0.02	1.19 ± 0.02	1.35 ± 0.03	lbs/sqft
Tensile strength (direction 0)	ASTM D638	21300**	17860	32780	32300	37220	38680	psi
Tensile modulus (direction 0)	ASTM D638	1272000**	1034600	1586000	1514000	1806000	1896000	psi
Tensile Elongation (direction 0)	ASTM D638	2.1%**	4.1%	2.4%	2.4%	2.3%	2.3%	%
Thermal expansion (avg. of -40 to 65 deg C)	ASTM E831	N/A	N/A	181.5	204.5	172	175	microns/m/degC
Thermal conductivity	ASTM E1461	0.25	0.24	0.29	0.30	0.36	0.36	W/mK
Specific gravity	ASTM D792	1.28	1.23	1.31	1.32	1.32	1.36	N/A

*Only one test was performed for glass content. Contact TRANSTEX for guidance or additional questions on these values.

**Tested along the 90-degree direction.

These are provided for informational purposes only. We recommend performing your own internal testing for your specific application.

COLORS



VARIOUS INDUSTRY APPLICATIONS



TRAILERS

- Trusted by trailer manufacturers for unmatched impact resistance.
- Scuff liners and wall panels withstand heavy impacts from forklifts and shifting cargo.
- Reduces fleet maintenance and operating costs.
- Lightweight, stain- and abrasion-resistant.



RECREATIONAL VEHICLES

- Lightweight and rugged for diverse RV applications.
- Resists delamination, moisture, heat, and cold.
- Easy to form, clean, and maintain—season after season.
- Made with eco-friendly, formaldehyde-free materials.



BUILDING PRODUCTS

- Versatile use in commercial and residential construction.
- Ideal for wall panels, ceilings, kitchens, baths, and public spaces.
- Durable, graffiti-resistant, and low-maintenance.
- Cost-effective alternative to traditional building materials.



PUBLIC TRANSPORTATION

- Ideal for buses, subways, and shuttles.
- Durable, flexible, graffiti-resistant, and lightweight.
- Suitable for interiors (walls, flooring, dashes) and exterior components (bumpers, signage, shielding).
- Molds to complex shapes for design flexibility.



INTERMODAL

- Superior protection for container interiors.
- Lightweight and impact-resistant alternative to wood.
- Moisture-resistant—ideal for sea conditions.
- Thermal protection options for refrigerated containers.



MATERIAL HANDLING AND STORAGE

- Replaces traditional wood, aluminum, steel, and fiberglass.
- Used in pallets, bins, totes, containers, and cargo modules.
- Tough, non-cracking surface that resists water and humidity.
- Lightweight, solid construction extends product lifespan.

TRANSTEX®

www.transtex-llc.com

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TRANSTEX is a leading manufacturer of advanced, thermoplastic composite solutions for a broad range of applications in new and diverse markets. Their expanding range of glass-reinforced polypropylene composite materials have set the industry standard for toughness and durability in applications throughout industry worldwide.

