CRANE Composites

TRAVEL TOUGH
with frp panels

# TRANSLUCENT ROOF dry trailers, truck bodies + delivery vans

Since 1980, Crane Composites has provided the market with a superior translucent roof solution that has addressed the needs for a well-lit vehicle that allows for a safer loading and unloading of cargo.

All Crane Composites translucent roofs are in compliance with the FSMA/USDA/FSIS requirements. There are many additional benefits that come along Crane Composites' translucent roofs; they are a lightweight and a cost efficient way to light a trailer without spending money to install lighting.

## THERE'S NO BETTER OPTION

**BLOCKS UV COOLER THAN ALUMINUM**

**IMPROVED PRODUCTIVITY + SAFETY**

**NATURAL LIGHT**

**WEIGHT SAVINGS**

**EASY TO REPAIR**

## benefits

### IMPROVED PRODUCTIVITY + SAFETY

- Improved visibility for safer loading and unloading of cargo
- Ideal for fleets who make frequent stops and load or unload products by hand
- Natural lighting makes it easier to identify specific cargo

### NATURAL LIGHT

- Light transmission with no added wiring or hardware cost
- Unique resin system filters UV light waves and minimizes heat build-up

### WEIGHT SAVINGS

- Average weight savings of ~34 lbs. | 15% savings!
- Increased payload and fuel efficiency

### EASY TO MAINTAIN

- Excellent surface for standard adhesive types due to the high surface energy of the panel which provides strong bonds to roof bows and top rails.
- Excellent rivet pull-out strength properties because of the woven fiberglass reinforcement along the edge.
- Minimized stress on adhesive and fastener points due to product rigidity (stiffness).
- Easily repairable when damage does occur.

# KEMLITE® EXTENDED WEATHERING ROOF

## discover the difference

KEMLITE XLR Roof is a one-piece, high-strength fiberglass reinforced plastic (frp) roof that combines durability and enhanced weathering capabilities with natural lighting for a superior addition to our translucent roof product line. This product is comprised of random chopped fiberglass and polyester resin with woven reinforcement built into the roadside and curbside edges for additional strength at the fasteners. It contains an engineered fabric on the backside for enhanced tear resistance and a unique resin formulation for enhanced weatherability.

WEIGHT SAVINGS:

**KEMLITE XLR - 0.50lbs/ft²**

When compared to .040" aluminum on a 53' Trailer, there is an average weight savings of ~31bs.

ENHANCED REINFORCEMENT:

Random long strand chopped fiberglass, woven reinforcement built into roadside and curbside edges, and enhanced tear resistant ETR technology.

## CRANE'S durable resin system

The light tint of ultramarine blue provides significant light transmission while limiting heat gain in the trailer compared to standard translucent roofs. This allows for improved safety and productivity for loading and unloading cargo. Additional UV stabilization has shown a reduction in roof degradation by up to one third, helping your roof last longer than standard translucent roof.

# ARMORTUF® + KEMLITE® additional product offering

## ARMORTUF
### Translucent Roof

## KEMLITE
### Cool Roof

## TRW

Our only roof panel with full-width woven fiberglass mat reinforcement.

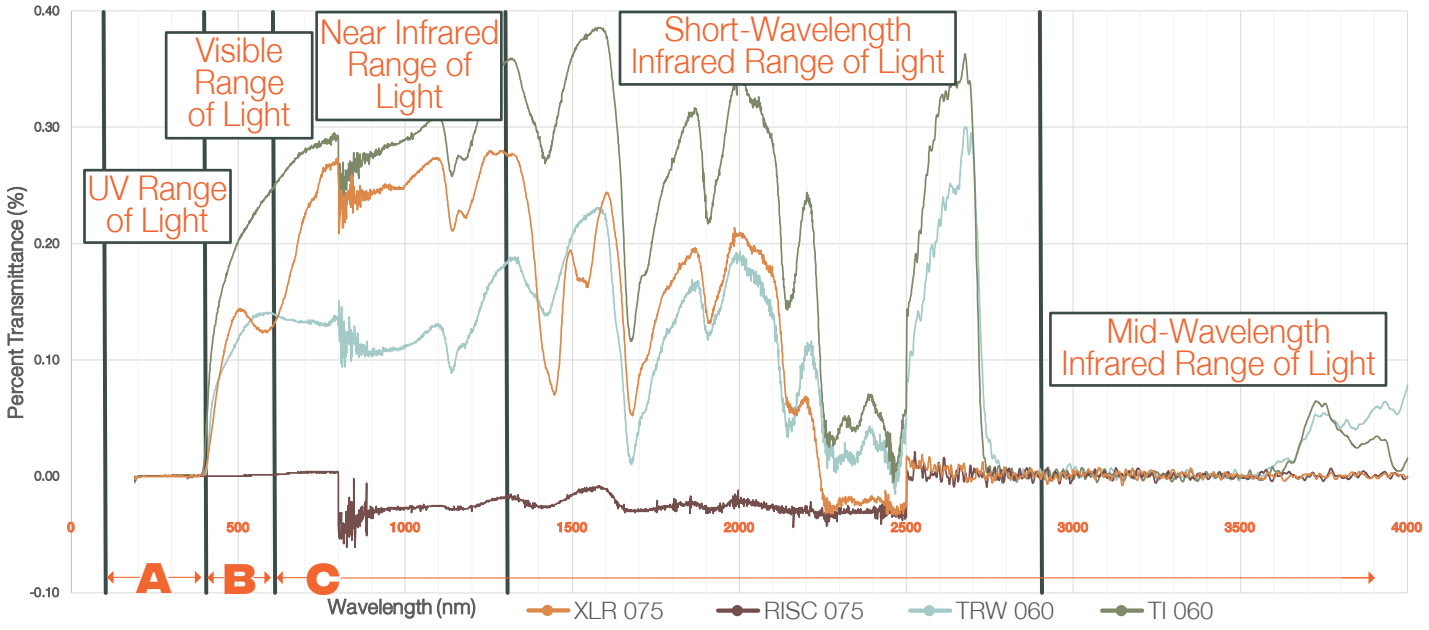
FOR DRY VAN TRUCK BODIES + DELIVERY VANS

## RISC

Our lowest light transmission panel. Cool Roof minimizes the heat build-up associated with more translucent panels.

FOR TRUCK BODIES + DELIVERY VANS

## Percent Transmittance of Light per Wavelength




**A. UV RANGE OF LIGHT**

Ultraviolet (UV) light is a form of electromagnetic radiation that ranges wavelengths from 100 – 400 nm. Light at these wavelengths have enough energy to breakdown molecular bonds and cause damage. Fortunately, Crane Composites roofing solutions filter out over 99% of the harmful radiation from this range of light. As shown in the graph above, all wavelengths of light in the UV range have a percent transmittance less than or equal to 0.01%!

**B. VISIBLE RANGE OF LIGHT**

The next range of electromagnetic radiation is the visible light spectrum which spans wavelengths from 380 – 700 nm. Light in this region is visible to the human eye. As seen above, Crane Composites roofing solutions also filter out light in this region but not completely. This enables translucency and the transmission of visible light provides illumination to the interior of the vehicle/trailer.

**C. INFRARED RANGE OF LIGHT**

Infrared (IR) light is another form of electromagnetic radiation that ranges wavelengths significantly more than UV and visible light. It ranges from 700 – 1,000,000 nm and contains subset ranges such as near IR, short-wavelength and mid-wavelength IR. Light at these wavelengths radiate energy and humans can sense some of that infrared energy as heat. As seen above, Crane Composites roofing solutions also filter out a significant amount of light in these regions. However, RISC filters out over 99% of near and short-wavelength IR and a portion of mid-wavelength IR, which helps keep the interior of the vehicle/trailer cooler!

## more than 70 years

A global leading provider of resilient wall and ceiling coverings. Kemlite® was established in 1954 and the company changed names to Crane Composites in 2007. Crane Composites is headquartered in Channahon, IL and all our products are manufactured in the United States. We work with hundreds of distributors, ensuring our products are easily accessible and readily available to our customers.

MADE IN THE USA

USDA

FDA FOOD SAFETY MODERNIZATION ACT FDA

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