Why Shelter-Rite® BRITE™ with Kynar® By Seaman Corporation

The Shelter-Rite Difference

Shelter-Rite® fabrics for the architectural structure market are manufactured by Seaman Corporation, a world leader in the innovation and manufacturing of high-performance coated fabrics since 1949. A vertically integrated company, Seaman Corporation develops proprietary formulations, knits, weaves, coats and inspects all of its materials in two U.S.-based plants. Since the company patented and introduced the first Portomod framed structure to the market in the mid-1960's, Shelter-Rite architectural fabrics have been preferred by architects, designers and fabricators for commercial and military projects throughout the world.

Shelter-Rite fabrics are engineered to ceate a variety of unique structures:

- Air-Supported
- Pre-Engineered Frame
- Custom Engineered Tension
- Rental Tents

45 Years of Proven Performance

Kynar was introduced in 1965 as a paint additive for standing-seam metal roofs and many other applications. Standing seam metal roofs with the Kynar finish have earned a reputation of maintaining their "like new" appearance for well over 20 years. Now, this technology is available on a coated fabric, providing far superior performance compared to standard PVDF and Acrylic coatings, and at least, comparable performance compared to PVF films:

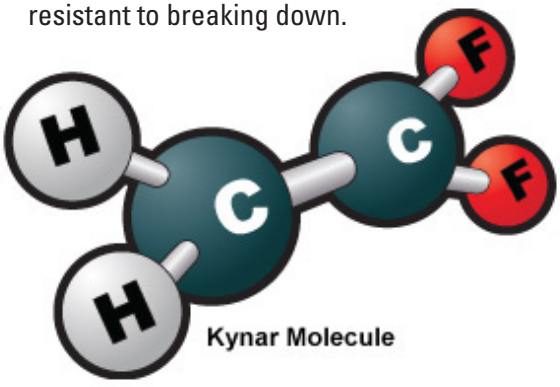
Example of a metal Standing Seam Roof

- Retention of color
- Retention of gloss
- Stain resistance
- Dirt pick-up
- Mildew resistance
- Chemical resistance
- Water repellant
- Film erosion
- Chalking
- Flexibility
- Cleanability
- Transmittance

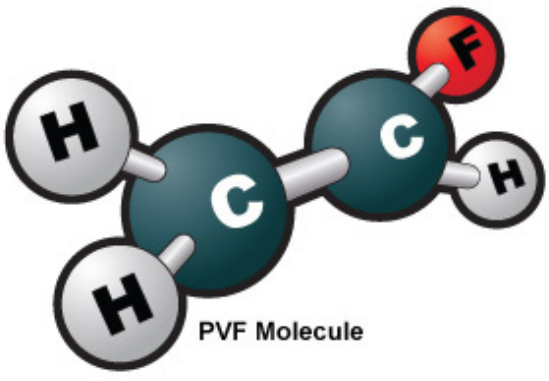
Advanced Formula

Twice the Fluorine Content for Superior Performance vs. PVF

Kynar's superior protection is due to simple chemistry. Scientists incorporate a high level of fluorine into its chemical structure; actually, twice the content vs. PVF. Given fluorine provides one of the strongest chemical bonds known to man, the Kynar polymer is highly resistant to breaking down.



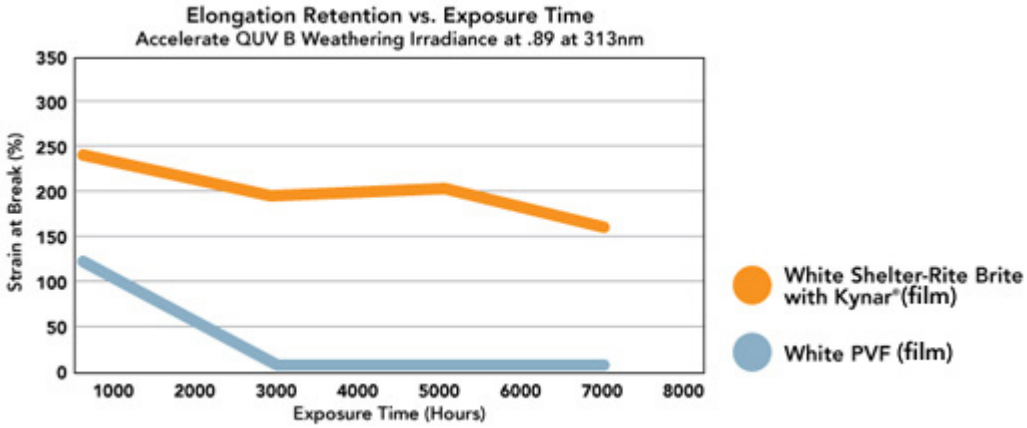
Kynar Molecule



PVF Molecule

Proven Technology - Superior Flexibility

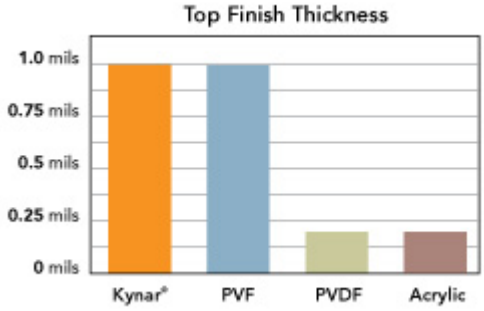
Kynar vs. PVF (white)



Conclusion: Kynar has superior elasticity over long-term exposure.
Source: Arkema, Inc.

Thicker Top Finish

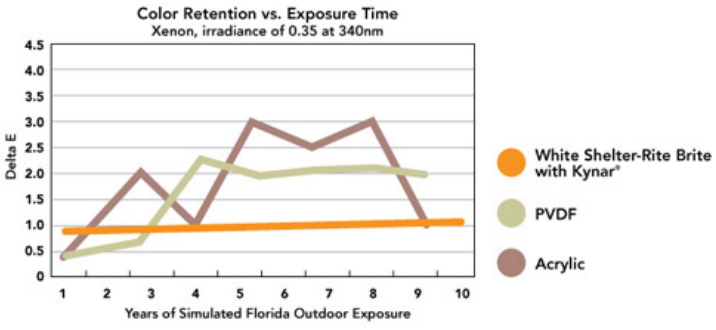
Kynar vs. Standard PVDF, Acrylic and PVF (white)

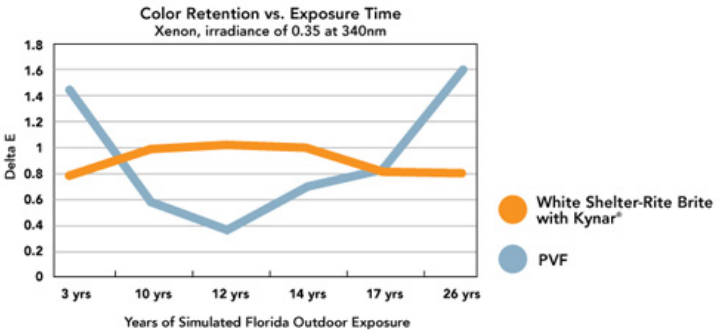


Conclusion: In addition to being a superior formula, ounce per ounce, Kynar is also thicker; together providing extended life

Less Color Change

Shelter-Rite Brite with Kynar vs. Standard PVDF, Acrylic and PVF (white)

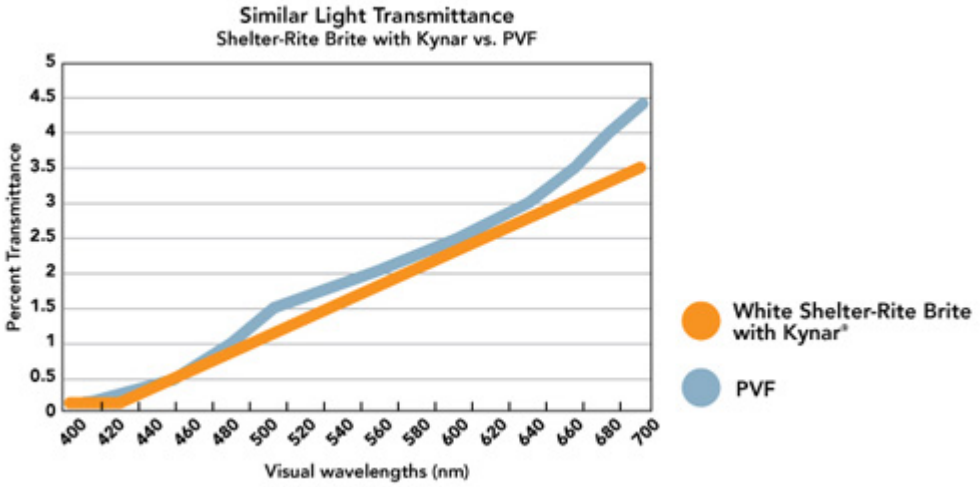




Conclusion: Shelter-Rite Brite with Kynar has minimal color change over the equivalent of 26 years, and that level remains constant. PVF has a more significant color change at year 3, and then decreases due to chalking and as polymeric changes occur for the next ten years. After which, the color change shows a consistent increase given this polymer degradation. Both Acrylic and PVDF depict an increasing trend line as the top finishes degrade.
Source: Arkema, Inc.

Similar Light Transmittance

Shelter-Rite Brite with Kynar vs. PVF



Conclusion: Both products have similar light transmittance.

1. Kynar is the trademark property of Arkema

TOP FINISH

Feature: Choice of Acrylic, PVDF and Kynar
Benefit: Improves long-term aesthetics

FACE COAT

Feature: Over 35-year proven proprietary
Benefit: Superior UV and color stability, and long term performance

ADHESIVE COAT

Feature: Adhesive coat that uniquely saturates yarn, forming a molecular bond
Benefit: Maximizes peel resistance and seam strength, and prevents wicking

FABRIC LAYER

Feature: Unique weft inserted knit polyester design
Benefit: Superior tensile and tear resistance at a lighter weight vs. woven alternatives

BACK COAT

Feature: Superior mildew formulation
Benefit: Extended life and longer term aesthetics