Ideal Products

Product Information
Kynar® Laminated Jacketing

Product Description

Ideal Products' Kynar® film laminated jacketing is manufactured from aluminium alloy H-14 (half-hard) temper, which conforms to ASTM B-209, and from a tough 1.4 mil thick Kynar® PVDF film produced in continuous roll under exacting quality control conditions. The two products, metal and film, are bonded together through the use of permanent adhesives, heat and pressure. The standard color is grey. Other colors are available, but may require minimum quantities.
Kynar® polymerhas been used in the architectural products market for over 40 years and is well recognized for its longevity and performance in harsh environments.

Product Application

Kynar® film is unaffected by common solvents including hydrocarbons and chlorinated solvents. It provides excellent resistance to corrosive acids, acoustics, hot tar and grease. Its chemical resistance and mechanical properties make it ideally suited for use in most hostile environments such as found in the pulp-paper, textile, refinery, and petrochemical industries.

In addition, Kynar® film is completely resistant to UV degradation and will not chalk or fade over the lifetime of the product. Kynar® film emissivity is approximately 0.98.

Finishes

Kynar® laminated jacketing is available in several finishes which include smooth, stucco embossed and 3/16" cross-crimped. The stucco embossed finish on corrugated sheets reduces glare from sunlight, adds strength and has more potential for masking application fingerprints, scratches, dents and other minor surface blemishes.

Moisture Retarder

Kynar® laminated jacketing is supplied with a moisture retarder which consists of Polysurlyn, heat and pressure bonded to the interior surface. This moisture retarder impedes galvanic corrosion caused by contact of dissimilar metals in the presence of moisture, and chemical corrosion caused by installing over damp insulation materials.

High Performance Properties of Kynar® Film

- ✓ Resistant to sunlight degradation
- ✓ High emissivity, approx. 0.98
- ✓ Resistant to most chemicals and solvents
- ✓ High abrasion resistance
- ✓ Does not support fungus or mold growth
- ✓ High thermal stability
- ✓ High dirt shedding

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Technical Data

Kynar® Film vs. PVF Film Weathering Performance

Test	Method	Kynar® Hours 0	Kynar® Hours 5,000	Kynar® Hours 10,000	PVF Hours 0	PVF Hours 5,000	PVF Hours 10,000
Tensile Strength at Break (PSI)	ASTM D882	9,447	9,270	9,029	4,393	5,678	6,013
Strain ay Break (%)	ASTM D882	314.5	301.6	214	121	6	4
Yellowness Index	ASTM D1925	2.39	1.85	2.34	8.28	6.75	8.21
Total Solar Reflectance (%)	ASTM C1549	85.3	85	85.4	83.8	83.8	84.1

Note: QUV-B 313 nm is a very agressive weathering test method.

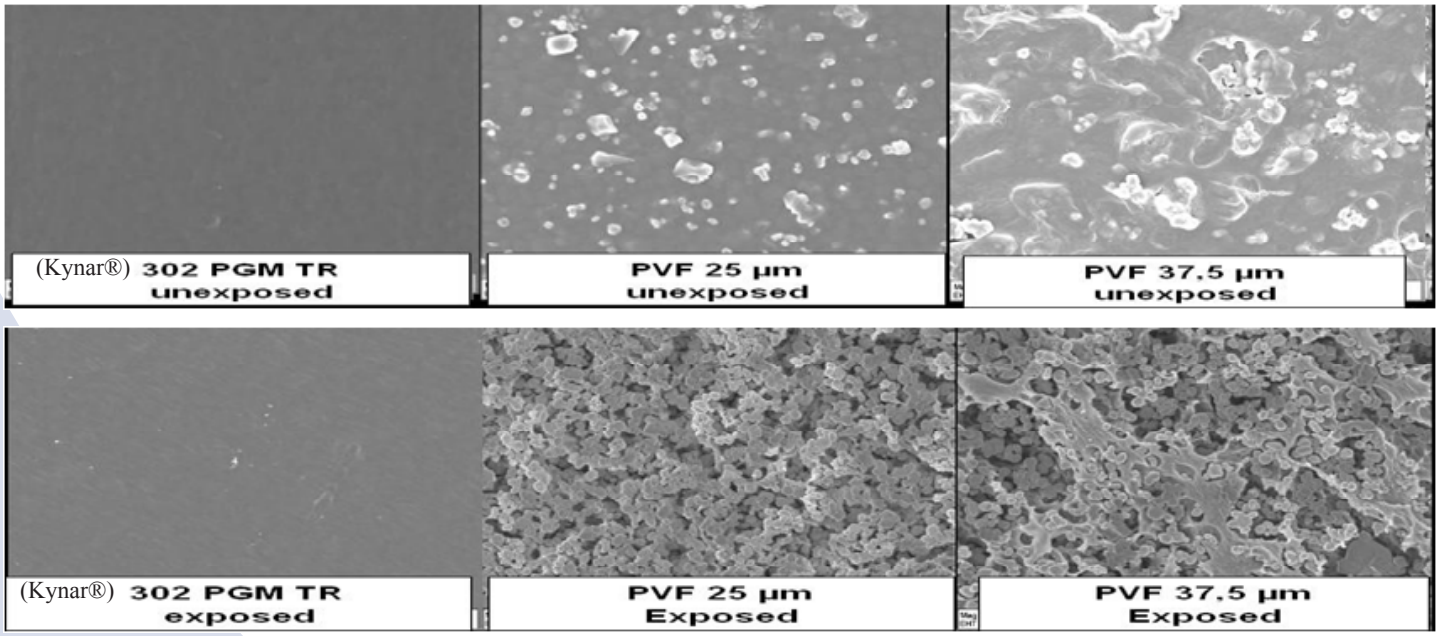
In the above table, the degradation of the PVF surface due to the effects of weathering can be most easily seen in the change in elongation properties over time

Accelerated Weathering Surface Analysis

SEM Micrographs of Kynar® film vs. PVF film before and after 5000 hrs QUV-B 313nm exposure

The following photographs show the surface of the Kynar® film in relation to the PVF film both before and after 5000 hrs of QUV-B exposure. The Kynar® film is unchanged whereas the PVF film shows significant signs of chalking and erosion.

Before



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