

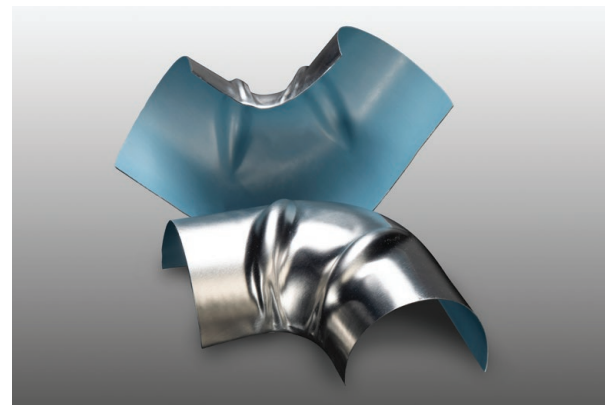
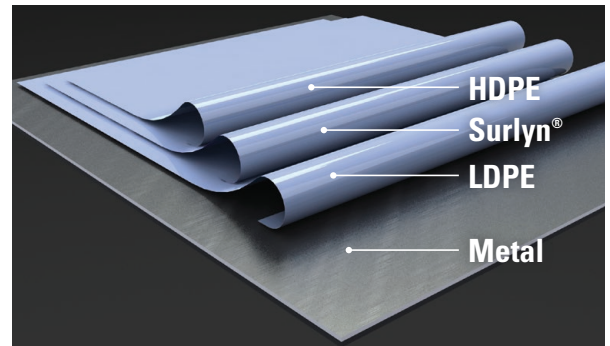
## What is Polyfilm Moisture Barrier (PFMB)?

Polyfilm moisture barrier (PFMB) is a three-layer protective polymer film that is factory heat-laminated to the interior surface of aluminum and stainless-steel metal jacketing. It is designed to help inhibit corrosion on the interior surface of the metal jacketing and, in some cases, help prevent corrosion of the underlying carbon steel pipe or tank. The PFMB offers simple, low-cost, and effective protection against metal jacket and pipe corrosion by serving as a barrier to prevent crevice, pitting, and galvanic corrosion.

## How Does the PFMB Work?

To keep water from causing jacket and pipe corrosion, the moisture barrier must be water-resistant, pinhole-free, tough, scratch-resistant, and durable. Only the PFMB offers all these necessary properties while also being economical and easy to use.

- Three-layer film to optimize performance and eliminate pinholes
- Thick film (3 mils, 76 µm) provides long-term durability
- Zero pinholes
- Much lower water vapor transmission rate than polykraft
- No kraft paper present to absorb water
- Tough and strong film to resist installation damage
- Great adhesion to metal substrate
- Low flammability



Property	Paint	Polykraft	PFMB
Description	Layers: 1 Thickness: 0.7 mils Material: Paint	Layers: 1 Thickness: 1.5 mils Material: PE film w/ kraft paper backing	Layers: 3 Thickness: 3 mils Material: Polymer film (1 mil LDPE, 1 mil Surlyn®, 1 mil HDPE)
Pinholes per 50 ft <sup>2</sup> via ASTM C1785	>19	16	0
Water resistance WVTR (g/100in <sup>2</sup> •day)	Unknown	Poor (~1.0)	Excellent (<0.05)
Toughness	Easily scratched	Easily damaged (paper)	Strong and scratch-resistant
Flammability	Good	Unknown but exposed paper surface has an autoignition temp of ~450°F (232°C)	Tested on aluminum using ASTM E84 0 Flame/5 Smoke. PFMB autoignition temp >600°F (316°C)
Writable Surface	Grease pen or permanent marker	Pencil or ink	Grease pen or permanent marker

For more information, please contact your local [JM Regional Technical Manager](#).