

# RAVEN

## RAVEN GEO FOAM PROTECTION



### PROTECTING NATURAL RESOURCES

Engineered Films is dedicated to producing critical film and sheeting for the containment and protection of Earth's natural resources. We are dedicated to developing targeted product solutions that not only solve precise application challenges, but also integrate sustainable environmental design practices for long-range performance. Raven is a well known American manufacturer with over 60 years of experience in cutting-edge geomembrane solutions with a diverse product line including smooth, reinforced, and textured geomembrane containment liners and covers.

Raven Absolute Barrier® EVOH gas barrier geomembranes are providing extraordinary results to prevent the migration of hazardous VOCs. Raven products are designed to meet the GRI-GM standard specifications, and certifications for NSF/ANSI, along with state and federal regulations to simplify product selection.



High-tech Absolute Barrier® is a seven layer, co-extruded membrane consisting of a very flexible, linear-low-density polyethylene with a chemically resistant EVOH barrier core layer to provide superior resistance to gas transmission.

## GEO FOAM PROTECTION PRODUCT COMPARISON STUDY

HOW CHEMICALLY RESISTANT IS ABSOLUTE BARRIER® WHEN COMPARED TO OTHER COMPETITIVE MEMBRANES DESIGNED FOR GEO FOAM PROTECTION?

Raven conducted an internal test study using gasoline submersion to compare Absolute Barrier® products (25 & 30 mil) against two standard chemically resistant competitive membranes. Absolute Barrier® membranes were compared against TPA (Tri-polymer Alloy) and EIA (Ethylene Interpolymer Alloy) membranes. Identical sized geo foam specimens were sealed in membrane pouches<sup>1</sup>, all pouches were sealed using the same method, and were placed in test structures<sup>2</sup> to be submerged in 5-gallon buckets of 100 percent gasoline<sup>3</sup> to conduct identical duration time studies.

HOW WELL DID ABSOLUTE BARRIER® PERFORM IN DIRECT GASOLINE TESTING VS. COMPETITORS?

After removing the sample pouches from gasoline submersion<sup>4</sup> they were cut open and it was concluded that the geo foam specimen in the Absolute Barrier® pouch was fully intact with no marked change<sup>5</sup> and in both the TPA and EIA membrane pouches the geo foam specimen had changed and been broken down<sup>6&7</sup>. This test study was done as a head to head internal test comparison to show direct results, we encourage specifiers and installers to conduct their own testing and are confident the conclusion will be repeated.



### RAVEN ENGINEERED FILMS

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