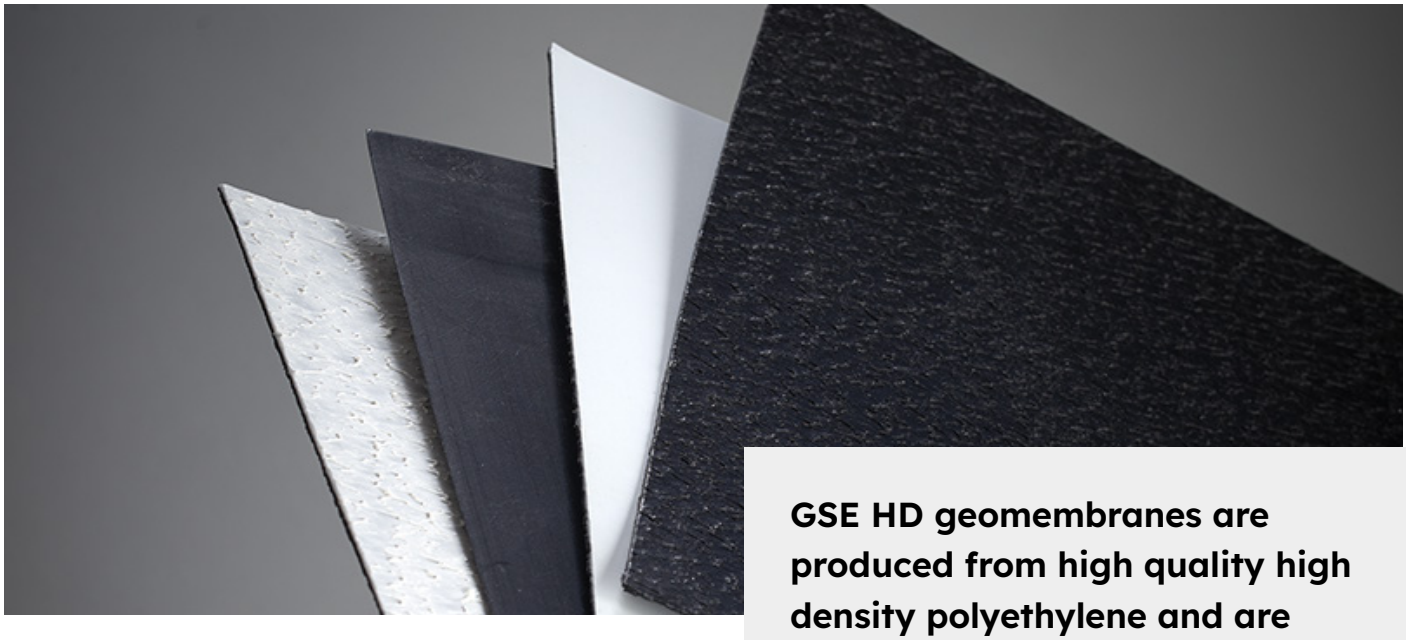
PRODUCT SHEET

SOLMAX

GSE HD

GSE® HD products are available in a variety of colors such as green for more aesthetic landfill caps and white for a solar reflective upper surface. The upper surface, lower surface, or both surfaces can be textured for use in applications where increased frictional resistance is required. The bottom surface can be comprised of a patented conductive layer to enable leak location surveys to be performed following installation of the liner.



GSE HD geomembranes are produced from high quality high density polyethylene and are designed to meet or exceed the specifications published by GRI for HDPE (GRI GM 13)[1].

Premium raw materials

GSE HD products are manufactured using high quality polyethylene resins. Carbon black, antioxidants, and UV stabilizers are added to the polymer to ensure long term performance in both covered and exposed applications.

Chemical resistance

HDPE is the most universal polymer used for geomembranes because of its proven chemical resistance, durability, and low permeability. HDPE is resistant to a wide variety of chemicals including aromatic and halogenated hydrocarbons. The chemical resistance of HDPE is especially helpful in applications that require harsh chemicals such as mining heap leach facilities, hazardous waste landfills, and in most containment facilities within chemical plants. Because of these factors and the broad and successful history of HDPE geomembranes, regulators are very familiar with these products and their usage.

Permeability

The permeability of HDPE is known to be the lowest among all polymers used in geomembrane applications. The combination of Solmax's HDPE excellent chemical resistance and environmental stress crack resistance maximize the integrity of any containment application.

Benefits of a roughened surface

A textured geomembrane provides increased frictional resistance that improves the stability of slopes. The ability to use a steeper slope provides cost savings by increasing the capacity of the project. Solmax products can be manufactured with a black, green, or white textured surface on one or both sides of the geomembrane.

Texture

Solmax HDPE textured geomembranes are manufactured to the highest quality standards, ensuring excellent friction performance and durability.

Solmax offers a variety of different textured surfaces in order to have the best friction solution for every application.

Availability to Solmax customers is increased and lead times are minimized.

Proven reliability

Our HDPE geomembranes have a long history of reliability and proven performance. Billions of square feet of Solmax HD geomembranes have been sold and installed. They have been used in wide ranging containment applications including potable water, decorative ponds, animal waste containment, landfills, canal linings and secondary containment. In addition to their exceptional performance, Solmax HDPE geomembranes have excellent weldability under a variety of conditions; extrusion and fusion welding can be performed with ease and confidence.

Applications

- Solid and Liquid Waste Containment
- Secondary Containment
- Mining
- Hazardous Waste Containment
- Pond Lining

Advantages

- History of Proven Performance
- Industry Familiarity
- Superb UV Resistance
- Exceptional Chemical Resistance
- Excellent Stress Crack Resistance
- Lowest Permeability Among Polymers
- Meets GRI GM 13 Specifications for HDPE

Quality assurance

All Solmax geomembrane production involves three levels of quality assurance. First, raw material suppliers must comply with Solmax specifications on incoming resin. Before the resin is unloaded from the railcar, Solmax verifies the raw material test results that are submitted by our suppliers by performing selected conformance tests. The second level of QA occurs during production.

As each roll is produced, it is electronically monitored for pinholes. Finally every roll of Solmax product undergoes a rigorous Quality Assurance program after production to ensure the mechanical properties are intact and meet or exceed Solmax quality standards. All Solmax laboratories are certified to meet GAI-LAP standards.

High performance geomembranes

For more demanding projects Solmax offers High Performance geomembrane products. Contact your Solmax representative for more information.

[1] GRI GM 13 Specifications can be found on the web: http://www. geosynthetic-institute.org/grispecs/gm13.pdf