

GeoTough™ EPDM
Geosynthetic Membrane



Commercial/Industrial EPDM GeoMembrane



WHY CARLISLE?

Industry-leading customer support.

Carlisle's unsurpassed levels of service and customer support make us a natural choice for your GeoMembrane needs.

50 years of proven manufacturing performance.

Carlisle has been manufacturing EPDM membranes for over half a century, resulting in industry-leading commercial and industrial application experience.

Technical support from in-house experts.

Carlisle's in-house design experts will give you the support and information you need.

Experienced and knowledgeable contractors.

Carlisle works with a nationwide network of skilled contractors and fabricators who provide the highest-quality installations.

Two state-of-the-art manufacturing facilities.

Carlisle GeoTough EPDM membranes are manufactured to the strictest quality tolerances, using the industry's most cutting-edge equipment.

Industry-leading warranty coverage.

Carlisle backs their products with industry-leading warranty coverage, providing customers with peace of mind that their investment is protected by the best warranty available.

Wide range of sizes and accessories are available.

Carlisle's GeoTough EPDM is available in a variety of sizes to fit any project, including large prefabricated custom panels up to 50' X 200'.



Since the inception of EPDM in the 1960s, Carlisle has **led the industry** in product innovation and system integrity, with **billions of square feet** of EPDM membrane produced and installed.





GEOTOUGH EPDM USES

GeoTough EPDM is ideal for a variety of liquid containment applications:

- » Decorative commercial water features
- » Agriculture
- » Aquaculture
- » Mining
- » Stormwater management
- » Water Conservation
- » Irrigation
 - Canals
 - Reservoirs



GEO TOUGH EPDM FEATURES AND BENEFITS

Superior resistance to UV, ozone, oxidation, and weathering.

Carlisle's GeoTough EPDM membrane offers exceptional solar UV, ozone, oxidation, and stress-cracking resistance, and can stand up to the most extreme weather and harshest climates

Long life expectancy.

Carlisle's EPDM membranes have a 50-plus year history of performance, with 20-year material warranties available.

Superb elongation and lay-flat characteristics.

GeoTough EPDM's lay-flat characteristics ensure a smooth and virtually wrinkle-free surface, and its outstanding elongation properties contribute to durability and a long service life.

Extremely flexible.

GeoTough EPDM conforms easily to the most demanding sub-grades, offering unmatched versatility.

Quick seaming process.

No specialized electric tools are needed to install GeoTough EPDM, and the quick seaming process saves time and labor costs.

Easy to install.

No heat-welding or kettles are required for installation, meaning GeoTough EPDM can be installed quickly and easily in virtually any location.

Non-toxic to most fish and plant life.*

GeoTough EPDM has been specifically formulated to be compatible with aquatic life.

Superior puncture resistance.

GeoTough EPDM is exceptionally tough and durable, offering excellent resistance to punctures.

Low maintenance.

Specifically formulated for long-term use in buried or exposed applications, GeoTough EPDM is virtually maintenance-free and is easily repaired.

Lightweight.

At only about .3 pounds per square foot, GeoTough EPDM is much lighter than many alternatives .

*The OWNER should be strongly cautioned to conduct the appropriate testing once the species to be contained has been identified.





No heat-welding or kettles are **required** for installation, meaning GeoTough EPDM can be installed quickly and easily in **virtually any location**.



Amongst top competitors,
Carlisle brand pond liners are
the only brand that consistently
provides the **added benefit of**
J-Tear protection.



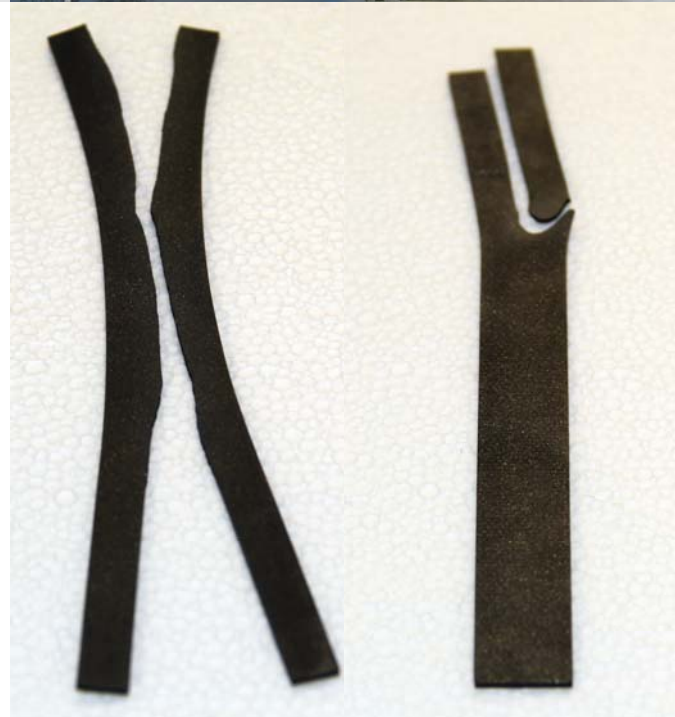
J-TEAR PROTECTION

The J-Tear test is completed by the Carlisle SynTec Systems R&D Department in accordance with ASTM D-624, which is the Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers

When the J-Tear test is successful the sheet will tear in the direction of the cut for a short distance and then it will change direction and attempt to curve back on itself—as it does with the Carlisle SynTec GeoTough EPDM membrane.

This direction change is important during the membrane installation process. As the installer works around protrusions, the J-tear stops the membrane from tearing as they install the sheet. Or, as you can see with the competitor's membrane, the tear will continue down the length of the membrane.

Amongst top competitors, Carlisle brand pond liners are the only brand that consistently provides the added benefit of J-Tear protection.



Competitor GeoMembrane

Carlisle's GeoTough EPDM

GEOTOUGH EPDM FOR AQUACULTURE

Carlisle's fish-friendly GeoTough EPDM systems offer the ideal solution for small and large fish hatcheries. Lay-flat technology ensures a smooth, virtually wrinkle-free surface for easy cleaning and harvesting. Exceptional solar UV, ozone, and oxidation resistance means GeoTough EPDM can be left exposed, further reducing the risk of harmful toxic buildup that can be detrimental to aquatic life. GeoTough EPDM is extremely flexible, easily conforming to any shape and offering unmatched versatility. Superb dimensional stability means GeoTough EPDM undergoes minimal expansion and contraction, enhancing its performance and extending its service life.



GEOTOUGH EPDM FOR AGRICULTURE

As environmental regulations on farms expand, the need for an efficient, cost-effective animal wastewater containment system becomes increasingly important. Carlisle's GeoTough EPDM membrane provides a cost-effective, long-term solution for virtually any exposed animal wastewater containment application. Significantly less expensive to install than concrete or thermoplastics, Carlisle's lightweight GeoTough EPDM membranes eliminate water loss to groundwater seepage and are specially designed to handle animal wastewater without affecting system integrity.



GEOTOUGH EPDM FOR WATER CONTAINMENT

Carlisle's GeoTough EPDM offers a reliable, economical, and environmentally friendly solution for your water containment needs. GeoTough EPDM is long-lasting, durable, dimensionally stable, and resistant to punctures, tears, and chemicals. Superior flexibility allows GeoTough EPDM to conform to virtually any shape for unmatched versatility. Carlisle's GeoTough EPDM offers exceptional solar UV, ozone, oxidation, and stress-cracking resistance, and can stand up to the most extreme weather and harshest climates, making it ideal for a wide variety of exposed water containment applications.



EXPERIENCE THE CARLISLE DIFFERENCE

Quality Track Record

Carlisle SynTec Systems, headquartered in Carlisle, PA, has been manufacturing single-ply EPDM membranes for more than half a century. With long-term aesthetics, durability and flexibility, Carlisle's GeoTough EPDM Geosynthetic membrane provides a high-performance, eco-friendly option for virtually any commercial or industrial pond lining application. Backed by Carlisle's proven track record of quality, innovation and technical expertise, GeoTough EPDM provides you with peace of mind, knowing your decorative commercial water feature or critical containment application will be protected for years to come.



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