

TOTGUARD

HDPE GEOMEMBRANE

The membrane is made from High Density Polyethylene (HDPE). It has excellent mechanical properties.

FEATURES

HDPE membrane polymers are non-toxic, tasteless, odorless

Have good heat resistance and cold resistance

HDPE resin is formulated for Ultraviolet and Ozone resistance and is an excellent geomembrane to use in an exposed environment

HDPE membrane has chemical stability, high rigidity and toughness

HDPE membrane has mechanical strength, and resistant to environmental stress cracking resistance tear strength and good

HDPE membrane impermeable maximum performance, with increased density, HDPE membrane mechanical properties and barrier properties will be a corresponding increase, heat, and higher tensile strength

HDPE membrane can be acid, alkali, organic solvents, such as corrosion

Geo membrane applications:

- Liquid fuel distribution and storage facility sealing.
- Urban sewage treatment plant sealing.
- Liquid manure tanks.
- Sealing of engineering structures,
- Hydraulic engineering structures.
- The waste disposal site sealing, including protection against leachateinfiltration



TECHNICAL DATA

- The typical pond liner, Canals and Lagoons Hazardous & Solid Waste Landfills
- Foundation & Basin Liners

Geomembrane is designed to be used in transport engineering:

- To form insulating layers protecting against polluted storm runoff from roads;
- To seal storage reservoirs and evaporating basins;
- To build drainage ditches;
- To provide waterproof insulation of those structure elements which come into contact with the ground, i.e. retaining walls, abutments, transportation tunnels, etc.

PHYSICAL PROPERTIES

Colour	Black
Size	7 mts. width x 140 mts. length (i.e. 980 sq mtrs per roll)
Thickness	1.5mm
Tensile Strength	350N/ cm ²
Elongation	560%
Tear strength	140N

Site Preparation

Subgrade preparation required:

- Channel reprofiling to form a consistent channel profile.
- Subgrade preparation to remove silt and debris.
- Prevention of regrowth by chemical suppressants.

INSTALLATION

The material was delivered to the site in large rolls. The HDPE liner was rolled out and laid across the channel with sections overlapping to enable welding of joints

DURABILITY

The lifespan of exposed HDPE is estimated to be 20-40 years

STORAGE AND HANDLING

Store products in unopened packaging until ready for installation

Do not store in direct sunlight or in high heat environment exceeding 150 degrees F (66 degrees C)

