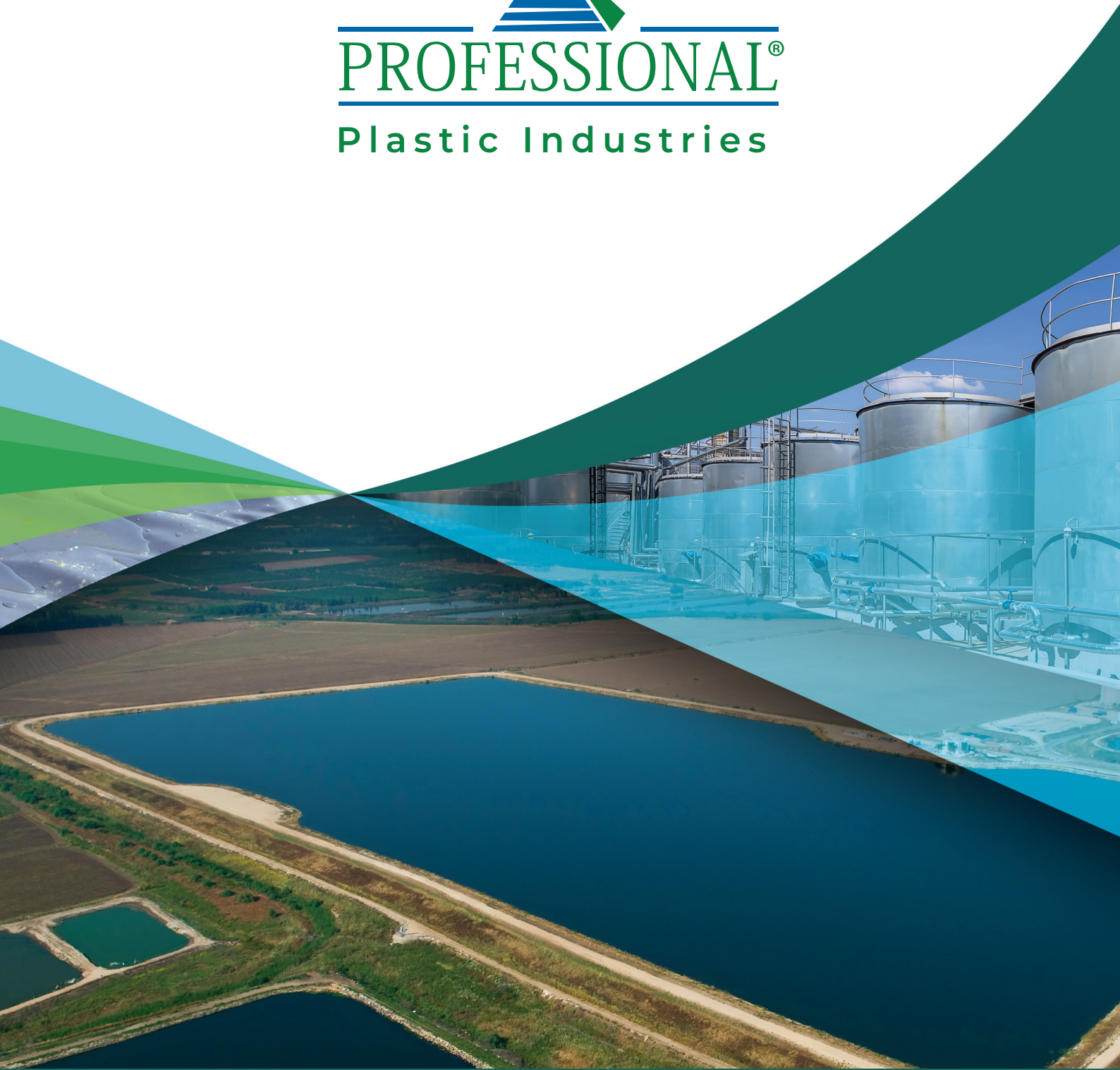




PROFESSIONAL[®]
Plastic Industries



Pro Geomembrane Liners and Barriers

Pro HDPE Geo Membrane

Pro HDPE Geo Membrane is a water-proof-resistant material with polymer as the basic raw material. The main mechanism is to leak the water leakage channel with the impervious partition of the plastic film. It is used to withstand water pressure and adapting the water retaining structures with its large tensile strength and extension rate.

Pro HDPE Geo Membrane is used for lining applications. Pro HDPE Geo Membrane can be used for many different projects including pond liner, landscaping, retaining walls, drains, erosion control, gardening, aqua-farming, rainwater harvesting, construction projects and many more. Pro HDPE Geo Membrane is ideal for ponds of all sizes with steep or gentle sloping sides, tight corners, contours and shelving. This lightweight liner is easy to install.



Our Product Range

- Pro HDPE (high density polyethylene) Geo Membrane
- Pro LDPE (Low -density polyethylene) Geo Membrane
- Pro LDPE (Low -density polyethylene) Geo Flim
- Pro LLDPE (Linear low -density polyethylene) Soil film.
- Pro VLDPE (Very low -density polyethylene) for tunnels



Salient Features:



Pro HDPE Geo Membrane

The ongoing development of Pro HDPE compounds in the recent years has improved the performance of Pro HDPE geomembranes significantly. Pro HDPE geomembranes meet sealing technology requirements, providing best-in-class flexibility, good strength, and good elongation behavior. Additionally, the liner offers high chemical resistance & proven long-term durability. This state-of-the-art lining material is able to meet the project requirements of a variety of applications.



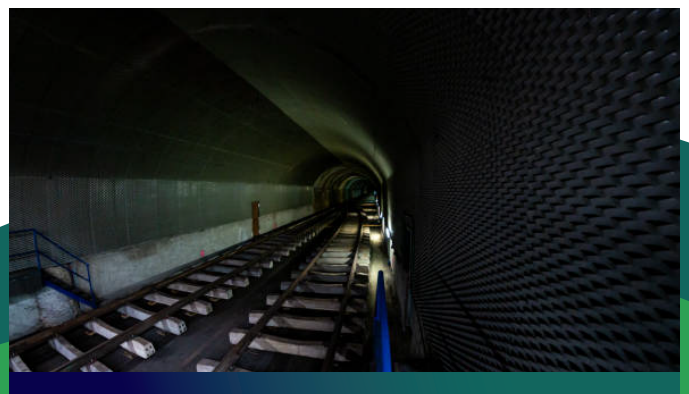
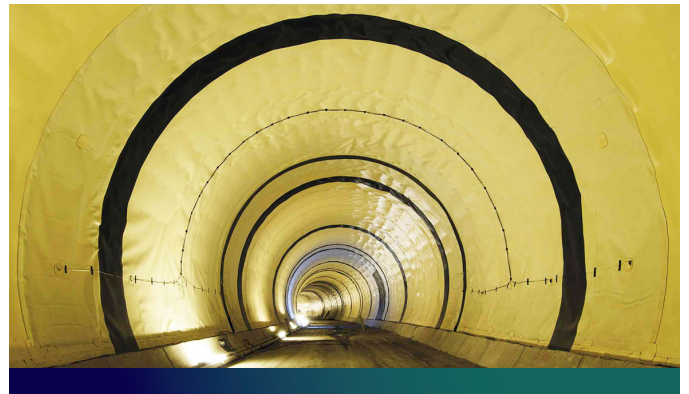
Pro LDPE Geo Membrane

Pro LLDPE has a higher content of comonomers than Pro HDPE, which means a higher degree of branching in the main chain. As a result, the crystalline content and the density are lower than those of HDPE. Plastic geomembranes made of Pro LLDPE are more flexible than HDPE membranes and have a higher elongation at break under biaxial stresses. Plastic geomembranes made of Pro LLDPE are used in hydraulic engineering and also for applications that are sensitive setting, such as the surface sealing of landfill sites.



Pro VLDPE Geo Membrane

The PE product line is complemented by the Pro VLDPE geomembranes. These combine the advantages of an HDPE geomembrane with a high degree of flexibility. Due to its excellent chemical, physical and biological properties, this product is suitable for a wide range of applications. Its main applications are in tunnel and pond construction.



Pro High Temperature Resistant Geo Membrane

Due to its improved durability at elevated temperatures, the Pro HTRPE geomembrane has created new possibilities for industry and other applications where processes are carried out at higher temperatures:

- Hot-water tanks
- Bioreactors
- Leaching ponds
- Oil & Gas industry
- Industrial water & waste water
- Energy production from renewable sources (solar thermal, biomass & geothermal energy)



Pro HDPE Geo Membrane Properties

Pro HDPE Geo Membrane is a high-quality liner that is highly acclaimed for its excellent UV and chemical resistance. Whether it's for waste containment, mining, or agricultural applications, HDPE Geo membrane is an essential choice for its reliability and long-lasting performance. HDPE Geo membrane is not only easy to install but also requires low maintenance, providing a reliable solution for your seepage control needs.

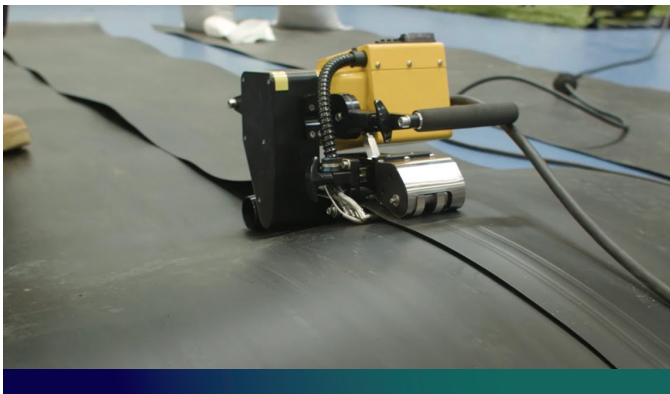


Pro HDPE Geo Membrane - GM 13 (ASTM) Standard

Nos.	Test Name	Test Method	Unit	Thickness					
				0.5mm	1.0mm	1.5mm	2.0mm	2.5mm	3.0mm
1	Thickness	ASTM D5199	mm	0.5mm	1.0mm	1.5mm	2.0mm	2.5mm	3.0mm
2	Density (min)	ASTM D792 1505	g/cm ³	0.940	0.940	0.940	0.940	0.940	0.940
3	Yield Strength	ASTM D6693	KN/m	11	15	22	29	37	44
4	Tensile Strength	ASTM D6693	KN/m	20	27	40	53	67	80
5	Yield Elongation	ASTM D6693	%	12	12	12	12	12	12
6	Elongation at Break	ASTM D6693	%	700	700	700	700	700	700
7	Tear Strength	ASTM D1004	N	85	125	187	249	311	374
8	Carbon Black Content	ASTM D1603	%	2-3	2-3	2-3	2-3	2-3	2-3
9	Puncture Resistance	ASTM D4833	N	210	320	480	640	800	9
10	Oxidative Induction Time	ASTM D3895	Min	100	100	100	100	100	100
11	UV Resistance retained OIT after 3 months	ASTM D3895 & LS	%	50%	50%	50%	50%	50%	50%
12	Oven Ageing Resistance at 85 °C retained OIT after 3 months	ASTM D5721 ASTM D3895	%	55%	55%	55%	55%	55%	55%
13	Environmental Stress Crack Resistance	ASTM D5397	hr	500	500	500	500	500	500

Pro HDPE Geo Membrane Installation

The Installation of Pro HDPE Geo Membrane is performed by heat sealing machine. These welds/joints are virtually stronger than the sheet itself.

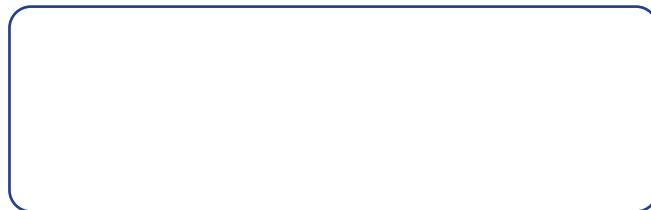




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