



GEO SOLUTIONS
YOUR VISION OUR EXPERTISE

HDPE GEO MEMBRANE

A Product of **SUPREONE** Rubber and Chemical Industry



Regd. No. 14123018
Certification No. 100561732



Regd. No. QCC/4(370)-22-23 (829)



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TECHNICAL DATA SHEET

GEO SOLUTIONS HDPE Geomembrane 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 Geomembrane is an essential choice for its reliability and long-lasting performance. HDPE Geomembrane is not only easy to install but also requires low maintenance, providing a reliable solution for your seepage control needs.

Performance :

HDPE Geomembranes have a flat and smooth surface, providing excellent impermeability and barrier properties. Some key performance aspects include:

- **Impermeability:** HDPE geomembranes offer a high level of impermeability, preventing the passage of liquids or gases through the material.
- **Chemical Resistance:** They exhibit good resistance to a wide range of chemicals, making them suitable for various applications, such as containment of hazardous substances.
- **UV Resistance:** HDPE geomembranes are often designed with UV stabilizers to withstand prolonged exposure to sunlight without degradation.
- **Installation and Seaming:** They are relatively easy to install and can be seamed together using various techniques like heat welding or adhesive bonding.

Applications

- **Landfills:** HDPE geomembranes are widely used in landfill applications for lining and capping systems to prevent leachate contamination and control gas emissions.
- **Mining:** They are used in mining operations for heap leach pads, tailings storage facilities, and containment ponds to prevent seepage and environmental contamination.
- **Agriculture:** HDPE geomembranes are used in agricultural applications such as irrigation canals, reservoirs, and wastewater treatment ponds to store and distribute water effectively.
- **Water and Wastewater:** They are employed in water and wastewater treatment plants for lining basins, tanks, and channels to prevent leakage and ensure proper containment of liquids.

HDPE Geomembrane-GM 13 (ASTM) Standard

Properties		Test Method	Test Value			
			0.7mm	1mm	1.5mm	2mm
Density (min)		D 1505/ D792	0.94g/cc	0.94g/cc	0.94g/cc	0.94g/cc
Tensile Properties(1)(min.ave)						
(i)	Yield Strength	D 6693	11 KN/m	15 KN/m	22 KN/m	29 KN/m
(ii)	Break Strength	D 6693	20 KN/m	27 KN/m	40 KN/m	53 KN/m
(iii)	Yield Enongation	D 6693	12%	12%	12%	12%
(iv)	Break Elongation	D 6693	700%	700%	700%	700%
Tear Resostamce (min. ave)		D 1004	93 N	125 N	187 N	249 N
Carbon Black Content - &		D4218(3)	2-3%	2-3%	2-3%	2-3%