HDPE WATER PROOFING MEMBRANE

The management of solid waste is crumbled for both the development as well as developing countries. The use of landfill for waste management is still a predominant option worldwide. Mainly used for agriculture operations, construction work and related applications. HDPE films have many advantages, such as high shear and tensile strength , good barrier properties, high rigidity and high service temperature.

HDPE films are mostly used in land fill application which protects the environment from the contamination produced by percolation of rainwater through the waste. A capping system will protect the landfill from further water infiltration.

Due to excellent chemical, physical and biological properties, HDPE Sheets are used for ground water protection and water engineering including the sealing of waste disposal sites, industrial lagoons and reservoirs.

Covering for rainy season

APPLICATIONS:

> Landfill for waste dumping and hazardous waste dumping, chemical waste, fly, ash, soda ash, thermal power plant, Hydro Power plant, waste liquid and steel plant.
> Disposal of hazardous municipal waste in secured landfill guideline from the ministry of environment and forest.
> Masking of concrete structure at port.
> Storage of agricultural/industrial slurries.
> Chemical & Petrochemical industries.
> Salt Spans.
> Air pollution and ground water pollution.
> Fire fighting lagoons.
> Lining canals & rivers.
> Dams and Reservoir.

HDPE Water Proofing Membrane

Advantage of HDPE films:

> HDPE have high tear resistance, ozone, oxidation, weathering resistance, low coefficient of thermal expansion, flexibility, chemical resistance, proof resistance, low temperature resistance, friction resistance, high erosion resistance staining and migration resistance.

Physical Properties as per ASTM STANDARD

SL. No.	Tested Property	Test Thod	Minimum Average Vise				
			0.75mm	1mm	1.5mm	2.0mm	2.5mm
1.	Thickness, mm	ASTM D 5199	0.75±20%	1±20%	1.5±20%	2±20%	2.5±20%
2	Density, gm/cc	ASTM D 1505	0.94	0.94	0.94	0.94	0.94
3	Tensile Strength	ASTM D 6693					
i)	Strength of Break N/mm	Type IV Dumble	20	27	40	53	67
ii)	Strength at yield N/mm	50mm/min	11	15	22	29	700
iii)	Elogation at Break (%)	GL.50/GL30	700	700	700	700	700
iv)	Elogation at Yield (%)		12	12	12	12	12
4	Tear Resistance, N	ASTM D 1004	93	125	187	249	311
5	Puncture Resistance, N	ASTMD 4833	240	320	480	640	800
6	Carbon Back Content, %	ASTMD 4218(3)	2-3	2-3	2-3	2-3	2-3
Roll Dimension							

1. Roll Length 20 mtr.
2. Width 5-6 mtr.