
Geotec™ HDPE Geomembrane



[Introduction]

Geotec high(middle) density polyethylene geomembrane is made from HDPE resin and additives such as antioxidant ,light-stabilize and carbon black, etc. It is extensively used for landfills, sewages, mining, environmental protections and irrigation projects.

[Specification]

Thickness:0.5mm-2.5mm width:4-8m

Weave type:Smooth geomembrane,textured geomembrane

[Characteristic]

- 1.Low Permeability - HDPE lining systems are secure because leachate does not penetrate them; methane gas will not escape from the HDPE cover system; and rainwater will not infiltrate an HDPE cap.
- 2.Chemical Resistance - HDPE, resistant to a wide range of chemicals, is not threatened by typical solid or hazardous waste leachates. It is also suitable for sludge and secondary containment around chemical storage facilities.
- 3.Ultraviolet Resistance - HDPE's resistance to UV exposure is further enhanced by the addition of carbon black. Additionally, with the absence of plasticizers, volatilization is not a problem.
- 4.Reflective Factor - Geotec offers its HDPE geomembranes in white as well as black. A white surface helps mitigate liner temperature extremes and aids visual inspection.

[Major technical parameter]

Technical Data	Items	0.50mm	0.75mm	1.0mm	1.5mm	2.0mm	2.5mm
Thickness Deviation %		±6					
Material		HDPE					
Density		0.94g/m ³					
Tensile strength Mpa≥		17.5	17.8	18.3	19	21	23
Breaking Elongation ≥		465	472	530	565	582	592
Tear Resistance KN/m ≥		81	83	85	87	89	90
Water Permeability g.cm/(cm ² .s.pa) ≤		1.0×10 ⁻¹³					
-70℃ Low Temperature Brittleness		Passed					
Size Stability %		±3					
Carbon Content %		≥2					
WidthxRoll length(m)		7x50m					
Loading Quantity per 40HC(m2)		50,000	34,000	26,000	17,000	13,000	10,000

Other requirement can also be made as per your detailed specification.

[Application]

Landfill (primary & secondary containment);
 Landfill caps/closures;
 Lagoon Liners;
 Mining Heap Leach Pads;
 Pond Liners;
 Agriculture Pond Liners;
 Canal linings;
 Raw water treatment reservoirs;
 Potable water reservoirs;
 Retention ponds;
 Floating Covers;
 Secondary containment for above ground storage tanks;
 Solutions ponds for mining applications;
 Tank lining;
 Waste water treatment lagoon.