



# SOLUTIONS

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## Enviro Liner 4000 Series

The Enviro Liner® 4000 series is a specialized Linear Low Density polyethylene lining material (LLDPE) that combines flexibility, UV stability, and chemical resistance. The Enviro Liner® 4000 series was originally designed as a flexible cap material for landfills. It has good flexibility which allows it to accommodate differential settlement in landfill cap applications. This flexibility also allows it to be prefabricated (welded, folded and rolled) so that many jobs can be lined using a one-piece liner.

The Enviro Liner® 4000 series is ideally suited to small, exposed ponds, or for liquid or effluent containment. The Enviro Liner® 4000 series is excellent for use in backfilled water ponds, run-off collection ponds, channels and other water and waste water containment applications. The Enviro Liner® 4000 series is UV stabilized with the addition of carbon black and is suitable for exposed use in a number of applications.

Enviro Liner® 4000 Fabrication Sizes		
Material Style	2500 lb Panel size	4000 lb Panel size
Enviro Liner® 4020 20 mil	25,000 ft <sup>2</sup>	40,000 ft <sup>2</sup>
Enviro Liner® 4030 30 mil	17,000 ft <sup>2</sup>	27,000 ft <sup>2</sup>
Enviro Liner® 4040 40 mil	12,500 ft <sup>2</sup>	20,000 ft <sup>2</sup>

Enviro Liner® 4000 Minimum Properties				
Style	ASTM	Enviro Liner® 4020	Enviro Liner® 4030	Enviro Liner® 4040
Thickness (Minimum Average)	D5199	20 mil	30 mil	40 mil
Thickness (Lowest Individual)	D5199	-10%	-10%	-10%
Density (Max)	D792	0.939	0.939	0.939
Tensile Strength at Break	D638 Type IV	76 ppi	114 ppi	152 ppi
Elongation	D638	800%	800%	800%
Tear Resistance	D1004	11 lbs	16 lbs	22 lbs
Puncture Resistance	D4833	32 lbs	48 lbs	61 lbs
Carbon Black Content	D1603	2.0-3.0%	2.0-3.0%	2.0-3.0%
Low Temperature Impact Resistance	D746	-69°F -56°C	-69°F -56°C	-69°F -56°C
Dimensional Stability (Max Chang)	D1204	1.5%	1.5%	1.5%
UV Resistance %HPOIT <sup>1</sup> Retained	D5885	35% at 1600 hours	35% at 1600 hours	35% at 1600 hours

(1) HPOIT is High Pressure Oxidative Induction Time>  
The properties given for LLDPE geomembrane in this table are adapted from GRI-GM17.

*Preserving water resources for future generations*

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