

TECHNICAL DATA SHEET (TDS)

Product Series: Geomembrane

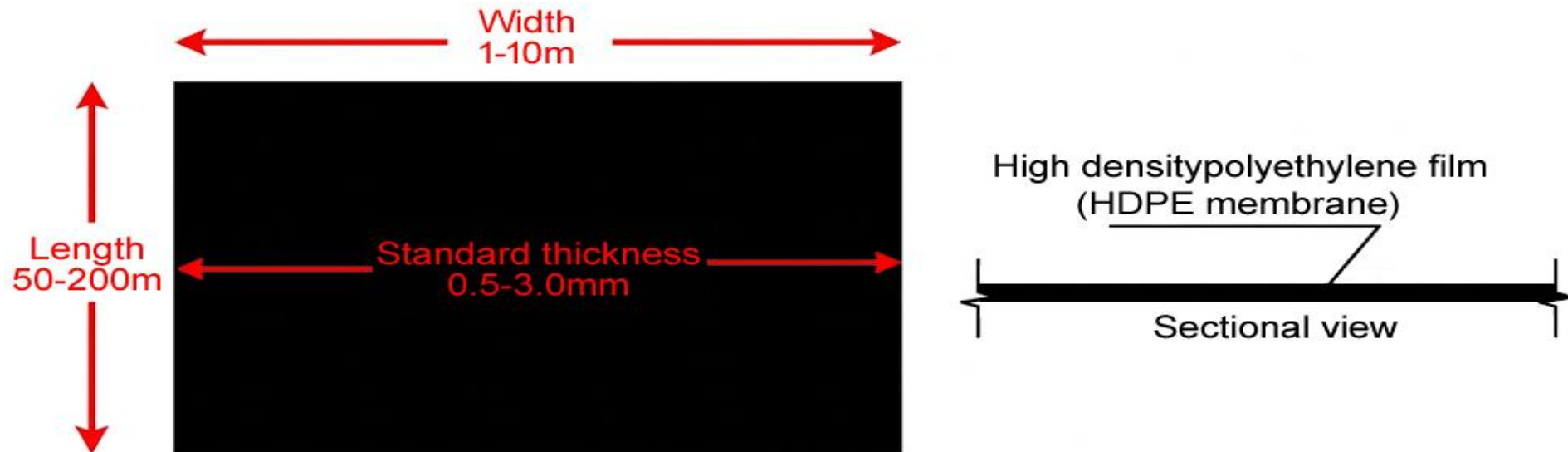


Brand	Geoleed
Material	Geomembrane
Application	Cement pavement repair / Subgrade reinforcement

1. PRODUCT OVERVIEW

Geomembrane is a type of low-permeability seepage-proof material made from high-molecular polymers. Simply put, it's like a giant, extremely tough, and corrosion-resistant "super plastic geomembrane."

2. PHYSICAL PROPERTIES



3. MECHANICAL PROPERTIES (MARV)*

Properties	Unit	Test Method	Product Specification						Frequenc
			GL75	GL10	GL15	GL20	GL25	GL30	
Thickness	mm	ASTM D 5199	0.75	1.00	1.50	2.00	2.50	3.00	Per roll
Density	g/cc	ASTM D 1505/D792	0.94						90000kg
Tensile Properties	kn/m kn/m % %	ASTM D 6693 TypeIV							90000kg
yield strength			11	15	22	29	37	44	
break strength			20	27	40	53	67	80	
yield elongation			12	12	12	12	12	12	
break elongation			700	700	700	700	700	700	
tear Resistance	N	ASTM D 1004	93	125	187	249	311	374	20000kg
Puncture Resistance	N	ASTM D 4833	240	320	480	640	800	960	20000kg
Stress Crack Resistance	hr.	ASTM D 5397	500 hr.						per GRI GM-10
Carbon Black Content	%	ASTM D 4218	2.0-3.0%						9000kg
Oxidative Induction Time	min	ASTM D 3895 ASTM D 5885	100 min. 500 min.						90000kg
(a)Standard OIT									
(b)High Pressure OIT									
Oven Aging at 85°C retained after 90 days	%	ASTM D 5721 ASTM D 3895 ASTM D 5885	55% 80%						per each formulation
(a)Standard OIT-%									
(b)High Pressure OIT-%									
UV Resistance High Pressure OIT-%retained after 1600hrs	%	ASTM D 5885	50%						per each formulation
Melt Index,condition 190°C/2.16kg		ASTM D 1238	0.20g/10min						