

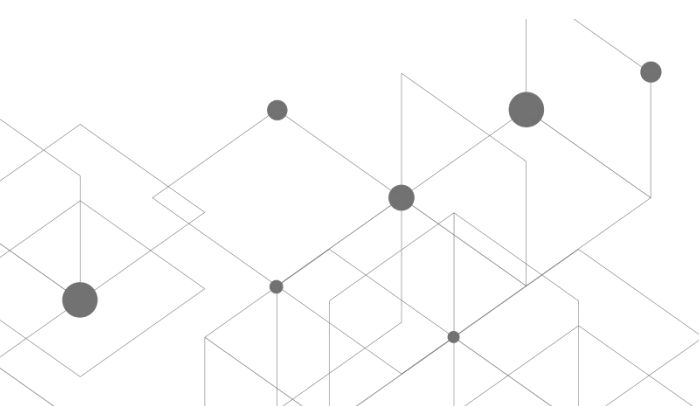
Tinhy HDPE Smooth Geomembrane is made by either advanced co-extrusion calendaring (flat die) or blown-film technology, ensuring superior resistance to extreme environments such as chemical exposure, UV radiation, and mechanical stress. With industry-leading quality control and compliance with global standards, we deliver products that excel in performance and longevity.

FORMULATION PROPERTIES				
Test Property	Test Method	Unit	Minimum Average Roll Value	Frequency(min.)
Melt Flow Index	ASTM D 1238 (190oC/2.16 Kg)	g/10 min	≤ 0.40	Per Production
Thickness(min.ave) ● lowest individual of 10 values	ASTM D 5199	%	+ - 5%	Per Roll
Formulated Density(min.ave)	ASTM D 1505/D792	g/cc	0.94	Per Production or 90,000 kg
Carbon Black Content(range)	ASTM D 4218	%	2.0-2.5	Per Roll
Carbon Black Dispersion	ASTM D 5596	-	For 10 different views: 10 in Categories 1	Per Production or 100,000kg
Stress Crack Resistance	ASTM D 5397	hours	≥ 500	Per Production or 90,000 kg
Oxidative Induction Time(OIT)(min.ave)				
(a)Standard OIT	ASTM D 8117	min	150	Per Production or 90,000 kg
(b)High Pressure OIT	ASTM D 5885	min	400	Per Production or 90,000 kg
Oven Aging at 85°C	ASTM D 5721	-	-	-
(a)Standard OIT(min.ave)-retained after 90 days	ASTM D 8117	%	55	Per Formulation
(b)High Pressure OIT(min.ave)-retained after 90 days	ASTM D 5885	%	80	Per Formulation
UV Resistance				
High Pressure OIT(min.ave)- retained after 1600hrs	ASTM D 5885	%	60	Per Formulation


PHYSICAL PROPERTIES													
Test Property	Test Method	Unit	Minimum Average Roll Value									Frequency(min.)	
			0.5mm	0.75mm	1.0mm	1.25mm	1.5mm	2.0mm	2.5mm	3.0mm			
Tensile Properties (min.ave)	● yield strength	kN/m	7	13	16	20	24	31	41	49	Per 9,000 kg		
	● break strength	ASTM D	13	21	28	34	42	56	70	84			
	● yield elongation	6693	%	13									
	● break elongation		%	800									
Tear Resistance(min.ave)	ASTM D 1004	N	65	98	131	164	195	258	323	385	Per 20,000 kg		
Puncture Resistance(min.ave)	ASTM D 4833	N	175	254	338	423	495	668	840	990	Per 20,000 kg		

STANDARD SIZES										
Thickness (mm)	ASTM 5199	0.5mm	0.75mm	1.0mm	1.25mm	1.5mm	2.0mm	2.5mm	3.0mm	
Roll Width(m)		6-10								
Roll Length(m)		50/100/150/200/230/320								

This product specifications meet or exceed GRI GM13. Information is for reference only and subject to change. Tinhy Geosynthetics Co., Ltd assumes no liability for its use.



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