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Product Specification Sheet

A.G.A. HDPE Geo-liner

A.G.A. HDPE geomembrane used in applications that require excellent chemical resistance and endurance properties.

A.G.A. Geo-liner is a smooth high density polyethylene (HDPE) geomembrane manufactured with the highest quality resin specifically formulated for a flexible geomembrane.

Property	Test method	Minimum Average Values				
Thickness, (min average) (mm)	ASTM D 5199	0.750	1.00	1.50	2.00	2.50
Lowest individual reading, (mm)		0.675	0.90	1.35	1.80	2.25
Density, g/cm ³	ASTM D 1505	0.940	0.940	0.940	0.940	0.940
Tensile Properties (each direction)	ASTM D 6693, Type IV Dumbbell, 5mm/min					
Strength at Break, (N/mm)		20	27	40	53	67
Strength at Yield, (N/mm)	G.L. 50 mm	11	15	22	29	37
Elongation at Break, (%)	G.L. 33 mm	700	700	700	700	700
Elongation at Yield, (%)		12	12	12	12	12
Tear Resistance, (N)	ASTM D 1004	93	125	187	249	11
Puncture Resistance, (N)	ASTM D 4833	240	320	480	640	80
Carbon Black Content, % (Range)	ASTM D 1603*/4218	2.0- 3.0	2.0- 3.0	2.0- 3.0	2.0- 3.0	2.0- 3.0
Notched Constant Tensile Load, (hr.)	ASTM D 5397, Appendix	300	300	300	300	300
Oxidative Induction Time, (minutes)	ASTM D 3895, 200°C; O ₂ , 1 atm	>100	>100	>100	>100	>100
Roll Length m ±1%		341	265	171	131	104
Roll Width m ±1%		6.86	6.86	6.86	6.86	6.86
Roll Area, m ² ±1%		2,341	1,819	1,171	899	711

A.G.A. HDPE smooth geomembranes are the preferred products for lining projects requiring low permeability, exceptional chemical and ultraviolet resistance properties, which makes them extremely cost-effective for many applications, such as:-Swimming pools and ponds and Aquaculture

AGA geomembranes have dimensional stability of ±2% when tested according to ASTM D 1204 and LTB of <-77° C when tested according to ASTM D 746.
 *Modified.

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