



HDPE SMOOTH LINER NOMINAL



TDR Liner is a GSI-compliant, low-permeability barrier designed for superior fluid containment. Enhanced with antioxidants, it ensures remarkable chemical resistance and durability. Available in different thicknesses and finishes, it's perfect for diverse projects from sports fields to water reservoirs.

ADVANTAGES

- Exceptional Chemical Resistance
- Available in thicknesses from 0.50mm to 2.5mm and in both smooth and textured finishes to perfectly align with project specifications.
- Superior mechanical strength and unparalleled resistance to UV rays.
- Manufactured in line with GSI standards, every geomembrane undergoes rigorous testing in GSI-approved GAI-LAP laboratories.
- Expertly designed to control fluid migration, making it ideal for projects where fluid containment and control are crucial.

APPLICATIONS

- Sports Fields
- Water Reservoirs
- Aquaculture Tanks
- Sanitary Landfills
- Building Waterproofing
- Water Treatment Plants
- Hazardous Waste Containment
- Canal Linings
- Secondary Containment

PROPERTIES

Properties	Test Method	Unit	Nominal Thickness	30 mil	40 mil	50 mil	60 mil	80 mil	100 mil
			Part No.	GHDPE075LN	GHDPE100LN	GHDPE125LN	GHDPE150LN	GHDPE200LN	GHDPE250LN
Average thickness	ASTM D5199	mil (mm)		27 (0.68)	36 (0.90)	43 (1.10)	54 (1.35)	72 (1.80)	90 (2.25)
Density	ASTM D792	g/cm ³		≥0,940	≥0,940	≥0,940	≥0,940	≥0,940	≥0,940
Strength at Break	ASTM D6693 Type IV	lb/in width (N/mm)		125 (22)	160 (28)	188 (33)	228 (40)	320 (56)	394 (69)
Strength at Yield	ASTM D6693 Type IV	lb/in width (N/mm)		63 (11)	86 (15)	103 (18)	126 (22)	172 (30)	212 (37)
Elongation at break	ASTM D6693 Type IV	%		725	740	750	755	770	780
Elongation at the yield point	ASTM D6693 Type IV	%		11	14	14	14	15	15
Tear resistance	ASTM D1004	lbs (N)		21 (93)	28 (125)	35 (156)	42 (187)	56 (250)	70 (311)
Puncture resistance	ASTM D4833	lbs (N)		69 (305)	85 (380)	90 (400)	115 (510)	146 (650)	180 (800)
Stress Crack Resistance (NCTL)	ASTM D5397	hrs.					>550		
Carbon black content	ASTM D4218	%					2 - 3		
Carbon black dispersion	ASTM D5596			Only near spherical agglomerates, for 10 observations:9 in category 1 or 2 and 1 in category 3					
High Pressure Oxidative Induction Time	ASTM D5885	mins					>650		
Oxidative Induction Time	ASTM D3895	mins					>120		
Aging in oven at 180°F (Minimum high pressure OIT% retained after 90 days)	ASTM D5721 ASTM D5885	%					>80		
UV Resistance (Minimum high pressure OIT % retained after 90 days)	ASTM D7238 ASTM G154 ASTM D5885	%					>80		

DIMENSIONS

Standard Roll Dimensions (+/- 1%)							
Roll Type A		30 mil	40 mil	50 mil	60 mil	80 mil	100 mil
Lenght	ft (m)	968 (295)	738 (225)	591 (180)	492 (150)	361 (110)	279 (85)
Width	ft (m)	23 (7)	23 (7)	23 (7)	23 (7)	23 (7)	22 (6.5)
Area (Approx)	ft ² (m ²)	22,264 (2065)	16,974 (1575)	13,593 (1260)	11,316 (1050)	8,303 (770)	6,138 (553)
Roll Type B		30 mil	40 mil	50 mil	60 mil	80 mil	100 mil
Lenght	ft (m)	1083 (330)	820 (250)	656 (200)	542 (165)	410 (125)	345 (105)
Width	ft (m)	23 (7)	23 (7)	23 (7)	23 (7)	23 (7)	22 (6.5)
Area (Approx)	ft ² (m ²)	24,909 (2310)	18,860 (1750)	15,088 (1400)	12,466 (1155)	9,430 (875)	7,590 (683)

Other widths available in a range of 20' to 25' for 30 - 80 mil liner and 20' to 22' for 100 mil.