

Leakdrain S5U HYPER

GEOSYNTHETIC SOLUTIONS **



Fibertex
SOUTH AFRICA

Leakdrain S5U HYPER consists of a single cusped HDPE (High Density Polyethylene) very high performance core. The core has the necessary compressive strength and in-plane flow capacity required to conduct leachate and other particle laden liquids without clogging. The core design has flat surfaces to provide protection and minimal stresses on the surrounding surfaces. Its main application is as a leak detection layer between two geomembrane at the base in containment systems.

SPECIFICATIONS

Physical Properties:					
Colour		Black			
Type		Single Cuspated (Dimpled)			
Material		HDPE (High Density Polyethylene)			
Dimple centres	(mm)	8.0	Nominal		Nominal
Surface Contact - Top	(%)	6.5	Nominal		Nominal
Surface Contact - Bottom	(%)	70	Nominal		Nominal
Drainage void volume:	(l/m ²)	3.3	Nominal		Nominal
Mass per unit area	(g/m ²)	1 200	±10%		EN ISO 9864
Overall Thickness (@2kPa)	(mm)	5.4	±10%		EN ISO 9863-1
Tensile Strength (MD/CMD)	(kN/m)	14.5 / 12.5	±10%		EN ISO 10319
Elongation at Break (MD/CMD)	(%)	60 / 40	Nominal		EN ISO 10319
CBR Puncture Resistance	(N)	1 700	-20%		EN ISO 12236
Dynamic Perforation Cone Drop	(mm)	7	+20%		EN ISO 13433
Short Term Compressive Strength	(kPa)	1 000			ASTM D1621 (mod)
<u>In-plane water flow</u>					
		<u>HG=1.0</u>		<u>HG=0.1</u>	
At 20 kPa pressure	(l/m.sec)	1.78	±0.50	0.53	±0.15
At 100 kPa pressure	(l/m.sec)	1.68	±0.50	0.49	±0.15
At 200 kPa pressure	(l/m.sec)	1.56	±0.50	0.45	±0.15
At 500 kPa pressure	(l/m.sec)	1.35	±0.50	0.34	±0.15
At 1 000 kPa pressure	(l/m.sec)	1.00	±0.50	0.30	±0.15
With hard platen boundary conditions to simulate installation on rigid surfaces (geomembranes)					
Design Life	(yrs)	120 (manufacturers declaration)			
Resistance to Chemicals		Excellent (EN 14030)			
Resistance to Weathering		Excellent (EN 12224)			
Roll Dimensions:					
Standard Roll Dimensions		2.2m x 60m, Overlap allowance 2%.			

Notes:

- The values given are indicative and correspond to nominal results obtained in the manufacturer's laboratories and testing institutes.
- The tolerance on roll length is 1.5% and the roll width is 1.0%.
- Guidance on interface shear strength, creep and certain other parameters is available. Site specific tests are strongly recommended.
- Final determination of the suitability of any information is the sole responsibility of the user.
- Please refer to separate sheets for fixing instructions.
- Flow values in excess of 200kPa are outside the scope of EN ISO 12958.

The information contained in this publication is provided in good faith and to the best of our knowledge is true and accurate.

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