Leakdrain S6U HYPER

*GEOSYNTHETIC SOLUTIONS ***

Fibertex SOUTH AFRICA

Leakdrain S6U HYPER consists of a single cuspated 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 leaden 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)				
Mass per unit area	(g/m^2)	1 400				EN ISO 9864
Equivalent sheet thickness	(mm)	1.4				
Dimple height	(mm)	6.90				EN ISO 9863-1
Dimple centres	(mm)	8.0				
Height of Flow Path	(mm)	5.5				
Surface contact - top	(%)	10				
Surface contact - bottom	(%)	60				
Performance:						
Carbon Black Content	(%)	0.8 – 2.5				ASTM D1603:94
Tensile Strength (MD/CD)	(kN/m)	11 / 8.5				EN ISO 10319
Elongation (MD/CD)	(%)	50 / 35				EN ISO 10319
CBR puncture resistance	(N)	1 200				EN ISO 12236
Compressive strength	(kPa)	1 000				ASTM D1621 (mod)
In-plane water flow		***HG=1.0***		***HG=0.1***		***Hydraulic Gradient***
At 20 kPa pressure	(l/m.sec)	2.65	±0.15	0.80	±0.15	EN ISO 12958
At 100 kPa pressure	(l/m.sec)	2.50	±0.15	0.75	±0.15	EN ISO 12958
At 200 kPa pressure	(l/m.sec)	2.40	±0.15	0.70	±0.15	EN ISO 12958
At 500 kPa pressure	(l/m.sec)	2.00	±0.15	0.57	±0.15	
At 1 000 kPa pressure	(l/m.sec)	1.54	±0.15	0.40	±0.15	
With hard platen boundary conditions to simulate installation on rigid surfaces						
Life expectancy	(yrs)	120 (manufacturers declaration)				
Working Temperature	(˚C)	-20 to 80				
Chemical resistance		Excellent resistance to all common chemicals				
Resistance to microbes		No significant effect				
Compatibility with geomembranes		Fully compatible. All components compatible with potable water				
Slope Stability		Data Available on request				
Health, safety, environment		INERT. No known health hazard. No precautions necessary.				

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Roll Dimensions:		
Roll Width & Length	(m)	2.2 x 100
Roll weight and diameter	(kg, m)	310, 0.85 with 100mm ID tube
Overlap & Wastage allowance	(%,%)	2%, 1-5% depending on the shape of the area to be covered

Notes:

1. The values given are indicative and correspond to nominal results obtained in the manufacturer's laboratories and testing institutes.
2. Unless otherwise stated allowable tolerances are ±10% of the typical value. The tolerance on roll length is 1.5% and on roll width is 1.0%.
3. Flow values in excess of 200kPa are outside the scope of EN ISO 12958. Flow values at 1 000 kPa are based on compression testing to higher pressure and flow tests to 500 kPa.
4. Final determination of the suitability of any information is the sole responsibility of the user.
5. Refer to separate sheets for fixing instructions and packing dimensions.