Leakdrain S5U Hyper



LEAKDRAIN S5U Hyper leakage detection layer comprises a single cuspated HDPE (High Density Polyethylene) very high strength 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 geomembranes at the base of containment systems.

Leakdrain Properties and Perfor	mance						
Colour		Black					
Type and material		Single cuspated (dimpled) HDPE (high density polyethylene)		
Dimple centres	(mm)	8			nominal		
Surface contact – top	(%)	6.5			nominal		
Surface contact - bottom	(%)	70			nominal		
Drainage void volume	(I/m²)	3.3			nominal		
Mass per unit area	(g/m^2)	1 200			±10%	EN ISO 9864	
Overall thickness at 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 peak MD / CMD	(%)	60 / 40			nominal	EN ISO 10319	
CBR puncture resistance	(N)	1 700			-20%	EN ISO 12236	
High Pressure OIT	(minutes)	> 600				ASTM D5885	
In-plane water flow MD and CMD		HG = 1.0		HG = 0.1		Hydraulic gradient	
at 20kPa confining pressure	(I/m·s)	1.78	±0.50	0.53	±0.15	EN ISO 12958	
at 100kPa confining pressure	(I/m·s)	1.68	±0.50	0.49	±0.15	EN ISO 12958	
at 200kPa confining pressure	(I/m·s)	1.56	±0.50	0.45	±0.15	EN ISO 12958	
at 500kPa confining pressure (5)	(I/m·s)	1.35	±0.50	0.34	±0.15		
at 1000kPa confining pressure (5)	(I/m·s)	1.00	±0.50	0.30	±0.15		
with hard platen boundary condition	ns to simulate i	nstallation be	etween geon	nembranes			
Resistance to weathering (UV)		Excellent				EN 12224	
Resistance to chemicals		Excellent				EN 14030	
Design life		120 years (manufacturer's declaration)					
Product Dimensions							
Standard roll dimensions	2.2 x 60 m.	2.2 x 60 m. Overlap allowance 2%.					

Notes

- 1. The values given are indicative and correspond to results obtained in our laboratories and testing institutes. In line with our policy of continuous improvement the right is reserved to make changes without notice at any time.
- 2. The tolerance on roll length is $\pm 1.5\%$ and on roll width is $\pm 1.0\%$.
- 3. Guidance on interface shear strength, creep and certain other parameters is available. Site specific tests are strongly recommended.
- 4. Final determination of the suitability of any information is the sole responsibility of the user. ABG will be pleased to discuss the use of this or any other product but responsibility for selection of a material and its application in any specific project remains with the user.
- 5. Flow values at pressures in excess of 200kPa are outside the normal scope of EN ISO 12958.

