

## HI-DRAIN

HI-DRAIN® is a durable, heat formed multiple-cusped synthetic sheet. The symmetrical cusped form has a high resistance to crushing.

HI-DRAIN® provides a high capacity, non-restricted drainage path which is compatible with all commonly used geomembranes as it's manufactured from HDPE and has the same life expectancy.



Tested Property	Unit	Test Method	Values ( * )			
Classification	---		Hi-Drain 500		Hi-Drain 750	
Sheet Thickness	mm		0.5		0.75	
<b>PHYSICAL PROPERTIES</b>						
Colour	---		Black			
Type	---		Cusped, 7x7:4			
Material	---		HDPE			
Density	g/m <sup>3</sup>	ASTM D792 (Method A)	> 958			
Cusped Height	mm		4.0			
Cusped Centres	mm		6.0 – 7.0			
Carbon Black Content	%	ASTM D4218	1.5 – 2.6			
Dimensions:						
- Roll width and length	m		1.18m x 104m		2.15m x 100	
- Roll weight	kg		65		163	
- Roll diameter	mm		800		800	
<b>MECHANICAL PROPERTIES</b>						
Strength at Yield	N/mm		MD 7.5 / TD 8.3		MD 12 / TD 11.4	
Elongation at Yield	%		MD 15 / TD 15		MD 15 / TD 15	
Strength at Break	N/mm		MD 10 / TD 10.7		MD 13 / TD 12.1	
Elongation at Break	%		MD 300/ TD 300		MD 300/ TD 300	
Puncture Resistance	N	ASTM D4833	140		200	
Compressive Yield Strength	kPa	ASTM D1621	500		1200	
In-Plane Waterflow:		ASTM D1621	HG = 1	HG = 0.1	HG = 1	HG = 0.1
- At 200kPa pressure	LPM/meter		65.00	18.00	65.00	18.00
- At 500kPa pressure	LPM/meter		20.00	5.00	60.00	17.00
- At 1000kPa pressure	LPM/meter		5.00	1.00	55.00	15.00
<b>With hard contact surfaces to simulate structural drainage applications</b>						
Compressive Creep Strain @ 500kPa/100 years	%	ASTM D7361	55		12	
High Pressure OIT	min	ASTM D5885	200		200	
Resistance to microbes	---		No significant effect			
Compatibility with Geomembranes	---		Fully Compatible			
Health, Safety, Environment	---		INERT No known health hazard.			

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