

TOTALSEAL MS / HP 5500 GCL with PE Bonded Liner Data Sheet

TOTALSEAL Multi System / **High Pressure** (MS / HP) is a waterproofing membrane comprising of a Geo-synthetic Clay Liner (GCL) composite made from high quality polypropylene geotextiles and a premium grade of sodium bentonite granules. **TOTALSEAL** is fully fibre-reinforced by fully needle-punching across the full length and width of the product. **TOTALSEAL MS / HP** has two hundred micron HDPE sheet backing bounded to the geotextile. This product is designed for use in situations requiring protection against contaminated or saline water. **TOTALSEAL MS / HP** have more bentonite granules per m². Designed and formulated in Australia; manufactured in China to New Zealand and Australian specification.

	Item	Value	Test Method	
1.	Non Woven geotextile cover layer (g/m ²)	210	ASTM D5261	
2.	Bentonite Layer (g/m ²)	5500	ASTM D-5993	
3.	Woven Geotextile layer (g/m ²)	110	ASTM D5261	
4.	PE Membrane thickness, (MM)	> =0.20		
5.	Bentonite expansion coefficient, (ml/2g)	>=24	ASTM D5890	
6.	Fluid Loss (ml)	<18	ASTM-D-5891	
7.	Moisture Content (%)	>80	ASTM D-4643	
8.	Coefficient Of water absorption (%)	>600	ASTM D-4643	
9.	Water Content	<=10	ISO 11465 (5 hrs, 105C)	
10.	Thickness (mm)	6	ASTM D 5199	
11.	Peeling Resistance (N/10cm)	Non-woven and woven fabric	>=60	ASTM D4632
		PE membrane and non-woven	>=40	ASTM D4632
12.	Hydraulic conductivity, k-value (permeability) (m/s)	4.5 x 10 ⁻¹²	ASTM D5084	
13.	Hydrated Internal Shear Strength (kPa)	60	ASTM 6243	
14.	Water loss (ml)	<=18	ASTM 5891	
15.	GCL Rupture Intensity Strength (kN/m)	>=7	ASTM D-6768	
16.	Width (m)	1.65		
17.	Length	15		
18.	Square Meter Per Roll (m ²)	24.75		