AUSTRALIAN-MADE TO STABILISE COASTAL STRUCTURES AND PROTECT LANDFILL

TEXCEL® R NON-WOVEN STAPLE FIBRE GEOTEXTILE

TECHNICAL DATA SHEET: **TYPICAL VALUES**

Texcel R is non-woven staple fibre geotextile developed to stabilise coastal structures and protect landfill lining systems. Made using either polyester and/or polypropylene fibres, they have a unique staple fibre blend and an inbuilt flexibility to allow engineers to specify mechanical and hydraulic criteria to suit tough environmental conditions.

- Significantly reduces force placed on impermeable liners, protecting them in the short and long term
- High abrasion, UV resistance and consistent mechanical and hydraulic performance
- Made in Australia, developed and tested in accordance with Australian standards
- High elongation properties minimising installation damage and ensuring effective soil contact, interaction and stability
- Applicable for Road, Water, Coastal and Waste sectors

TEXCEL R - TYPICAL VALUES TECHNICAL DATA

TEST	UNITS	400R	600R	900R	1200R
Fibre Type	-	100% Virgin Polyester Fibre			
CBR Burst Strength (AS 3706.4)	N	2,750	4,360	6,140	8,850
CBR Toughness (AS 3706.4)	kJ/m^2	2.7	5.6	8.1	9.3
Wide Strip Tensile Strength MD[1] (AS 3706.2)	kN/m	14.8	21.2	30.4	45.5
Wide Strip Tensile Strength XMD[2] (AS 3706.2)	kN/m	15.6	26.6	38.9	57.2
Wide Strip Toughness MD (AS 3706.2)	kJ/m^2	5.5	10.2	14.6	21.7
Wide Strip Toughness XMD (AS 3706.2)	kJ/m^2	5.8	12.7	18.6	30.0
Grab Tensile Strength MD (AS 3706.2)	N	820	1,250	1,790	2,800
Grab Tensile Strength XMD (AS 3706.2)	N	870	1,440	2,160	3,260
Abrasion Resistance MD/XMD (BAW Rotating Drum)	kN/m Strength Retained	7.5/6.9	17.3/17.3	22.7/26.2	34.2/40.5
12 Month Outdoor Exposure MD/XMD (ASTM D5970)	kN/m Strength Retained	8.1/7.1	17.7/17.0	23.2/23.2	42.4/47.6
Hydrocarbon (Diesel) Resistance MD/XMD (AS 3706.12)	% Strength Retained	>90	>90	>90	>90
Accelerated UV Resistance MD/XMD (AS 3706.11)	% Strength Retained	>50	>60	>80	>80
Pore Size O_{95} (AS 3706.7)	µm	≤75	≤75	≤75	≤75
Pore Size O_{95} - Capillary Flow Method (ASTM D6767)	µm	182	124	126	108
Permittivity (AS 3706.9)	s^{-1}	1.41	0.69	0.45	0.30
Coefficient of Permeability (AS 3706.9)	$m/s \times 10^{-4}$	48	34	23	20
Flow Rate @ 100mm Head (AS 3706.9)	$L/m^2/s$	141	69	45	30

MD=Machine direction, XMD=Cross Machine Direction

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