

### Building Australia's future



### InfraClay® Bentonite Clay Liner

InfraClay3600GL® is a superior geosynthetic clay liner, constructed from top-notch composite materials. Our unique manufacturing process involves needle punching Sodium bentonite, in both powder and granule forms, between a robust carrier layer of PP woven and a protective non woven covering layer. Enhanced waterproof properties are achieved by laminating PE onto one side of the InfraClay3600GL® Geosynthetic Clay Liner.

#### APPLICATIONS

- ☑ Dam liners
- ☑ Landfill capping
- ☑ Ponds

#### Technical Specifications

Material property		Units	Required Value	Testing method
GEOTEXTILE PROTECTION LAYER¹	PP non-woven white	g/m²	200	EN ISO 9864
GEOTEXTILE CARRIER LAYER¹	PP slit film woven	g/m²	110	Or ASTM D5261
BENTONITE LAYER (0% moisture content)	Sodium Bentonite granule²	g/m²	≥3600	ASTM D5993
	Fluid Loss	ml	≤18	ASTM D5891
	Swell Index	ml/2g	≥25	ASTM D5890
BONDED LAYER	PE Membrane	mm	≥0.2	ASTM D5199
MASS PER UNIT AREA (0% moisture content)	Geosynthetic clay liner	g/m²	4100	ASTM D5993
BONDING PROCESS		Fully Needle-punched		
TENSILE STRENGTH	MACHINE	kN/m	≥10	ASTM D6768
	ACROSS	kN/m	≥10	
PEEL STRENGTH BETWEEN WOVEN AND NONWOVEN		N/m	≥650	ASTM D6496
STATIC PUNCTURE RESISTANCE (CBR BURST)	STRENGTH	N	≥ 1800	EN ISO 12236
	ELONGATION	%	≥ 25	
PERMEABILITY		m/s	≤5.0 *10 <sup>-12</sup>	ASTM D5084
INDEX FLUX(q10)		(m³ /m² )/s	≤1X10 <sup>-9</sup>	ASTM D5887
ROLL SIZE⁴ (Length X Width)		(m)	30mt X 5.0mt or tailored	

#### Notes:

1. This represents the typical average value we have attained, with a permissible deviation tolerance of 8% for specific tests.
2. The unit mass of bentonite is presented as a typical average value. We have a range of products available from 3600-5500gsm. Additionally, the moisture content of the delivered bentonite is maintained below 12%.
3. The unit mass of GCL (Geosynthetic Clay Liner) is presented as a typical average value, with a usual deviation tolerance of 5%.