

Permaflex™



Flexible Polyethylene geomembrane

Description

Permaflex™ fPE is a highly flexible geomembrane designed as a replacement for flexible polypropylene where chemical resistance to chlorine and acids is required. Permaflex fPE has excellent physical properties and UV resistance.

Applications

- **Tanks:** Lining membrane for timber, concrete and metal tanks and secondary lining for preventing pollution in case of leakage or chemical spill.
- **Pond and Dam Lining:** For lining and liquid storage.
- **Baffle Curtains:** Suitable for WWTP turbidity barriers and baffle curtains.
- **Biofilter Liners:** Supply of factory fabricated rectangular liners.

PROPERTY	METHOD	UNITS	0.3	0.5	0.75	1.0
Specific Gravity	EN ISO 1183	g/cm ³	0.94	0.94	0.94	0.94
Thickness	EN 1849-2	mm	0.30	0.50	0.75	1.0
Tensile at Break MD	ASTM D6693IV*	MPa	25	25	25	25
Tensile at Break TD	ASTM D6693IV*	MPa	20	20	20	20
Elongation at Break MD	ASTM D6693IV** (- 5%)	%	1000	1000	1000	1000
Elongation at Break TD	ASTM D6693IV** (- 5%)	%	1000	1000	1000	1000
Puncture Resistance	ASTM D4833 (- 5%)	N	72	120	180	240
Tear Resistance	ASTM D1004 (- 5%)	N	25	35	52	70
Modulus of Elasticity	ASTM D6693 (± 10%)	MPa	100	100	100	100

*Tensile Properties: 50mm/min, 33mm Gauge Length

** Tensile Properties: 50mm/min, 50mm Gauge Length

Physical Properties: TUV Austria

Potable Water Tested: Meets AS/NZS 4020:2005 (certified as suitable for drinking water, aquaculture, etc).

This product meets the requirements of the New Zealand Building Code having a water vapour flow resistance of no less than 90MN/g as tested in accordance to ASTM E96

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