

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.

PROPERTY	METHOD	UNITS	0.5	0.75	1.0
Specific Gravity	EN ISO 1183	g/cm ³	0.94	0.94	0.94
Thickness	EN 1849-2	mm	0.50	0.75	1.0
Tensile at Break MD	ASTM D6693IV*	MPa	25	25	25
Tensile at Break TD	ASTM D6693IV*	MPa	20	20	20
Elongation at Break MD	ASTM D6693IV**	%	1000 (-5%)	1000 (-5%)	1000 (-5%)
Elongation at Break TD	ASTM D6693IV**	%	1000 (-5%)	1000 (-5%)	1000 (-5%)
Puncture Resistance	ASTM D4833	N	1.2 (-5%)	1.8 (-5%)	2.4 (-5%)
Static Puncture	EN ISO 12236	kN	120 (-5%)	180 (-5%)	240 (-5%)
Tear Resistance	ASTM D1004	N	35 (-5%)	52 (-5%)	70 (-5%)
Modulus of Elasticity	ASTM D6693	MPa	100 (± 10%)	100 (± 10%)	100 (± 10%)

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

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

Physical Properties: TUV Austria

