

PVC

PVC has been used for geomembrane applications for over 60 years. It is one of the most flexible geomembranes available, with a formulation that can provide oil resistance, UV stability, low-temperature resistance, and other specific properties. Layfield's PVC materials meet the requirements of ASTM D7176 Standard Specification for Non-reinforced Polyvinyl Chloride (PVC) Geomembranes.

April 2023		PVC		
Style	ASTM	PVC 20	PVC 30	PVC 40
Thickness (Minimum)	D7176	19 mil 0.48 mm	28.5 mil 0.72 mm	38 mil 0.95 mm
Tensile Strength	D7176	48 ppi 8.4 N/mm	73 ppi 12.8 N/mm	97 ppi 17.0 N/mm
Elongation	D7176	360%	380%	430%
Tear Strength	D7176	6.0 lbs 27 N	8.0 lbs 35 N	10.0 lbs 44 N
Low Temperature	D7176	-15°F -26°C	-20°F -29°C	-20°F -29°C
Dimensional Stability	D7176	4%	3%	3%
Water Extraction	D7176	0.15%	0.15%	0.2%
Volatile Loss	D7176	0.9%	0.7%	0.5%
Hydrostatic Resistance	D7176	68 psi 470 kPa	100 psi 690 kPa	120 psi 830 kPa
Resistance to Soil Burial				
Breaking Factor	D7176	5%	5%	5%
Elongation at Break	D7176	20%	20%	20%
Modulus @ 100%	D7176	20%	20%	20%

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