



## 10 Mil PVC Geomembrane

<b>Certified Properties</b>	<b>Test Method</b>	<b>Requirement</b>
Thickness $\pm 5\%$	ASTM-D5199	.010"
Specific Gravity (min.)	ASTM-D792	1.20
100% Modulus - lb. force/in. width, min.	ASTM-D882	10
Tensile - lb. force/in. width, min.	ASTM-D882	24
Elongation at Break (% , min.)	ASTM-D882	250
Graves Tear (lb./in., min.)	ASTM-D1004	2.5
Impact Cold Crack ( $^{\circ}\text{C}$ )	ASTM-D1790	-23
<b>Index Properties</b>		
Resistance to Soil Burial (% change max.)	ASTM-G160	
1. Breaking Factor		5
2. Elongation at Break		20
3. Modulus at 100% Elongation		20
Impact Cold Crack ( $^{\circ}\text{C}$ )	ASTM-D1790	-23
Dimensional Stability (% change max.)	ASTM-D1204	4
Water Extraction (% , max.)	ASTM-D1239	0.15
Volatile Loss (% , max.)	ASTM-D1203(A)	1.5
Hydrostatic Resistance (psi, min.)	ASTM-D751(A)	42
<b>Minimum Specifications for Factory Fabricated Seams:</b>		
Peel Strength, lbs/in. width	ASTM-D882	10 / FTB
Shear Strength, lbs/in. width	ASTM-D882	20



## 20 Mil PVC Geomembrane

<b>Certified Properties</b>	<b>Test Method</b>	<b>Requirement</b>
Thickness ±5%	ASTM-D5199	.020"
Specific Gravity (min.)	ASTM-D792	1.20
100% Modulus - lb. force/in. width, min.	ASTM-D882	21
Tensile - lb. force/in. width, min.	ASTM-D882	48
Elongation at Break (% , min.)	ASTM-D882	360
Graves Tear (lb./in., min.)	ASTM-D1004	6
Impact Cold Crack (°C)	ASTM-D1790	-26
<b>Index Properties</b>		
Resistance to Soil Burial (% change max.)	ASTM-G160	
1. Breaking Factor		5
2. Elongation at Break		20
3. Modulus at 100% Elongation		20
Dimensional Stability (% change max.)	ASTM-D1204	4
Water Extraction (% , max.)	ASTM-D1239	0.15
Volatile Loss (% , max.)	ASTM-D1203(A)	0.9
Hydrostatic Resistance (psi, min.)	ASTM-D751(A)	68
<b>Minimum Specifications for Factory Fabricated Seams:</b>		
Peel Strength, lbs/in. width	ASTM-D882	12.5
Shear Strength, lbs/in. width	ASTM-D882	38.4



## 30 Mil PVC Geomembrane

<b>Certified Properties</b>	<b>Test Method</b>	<b>Requirement</b>
Thickness ±5%	ASTM-D5199	.030"
Specific Gravity (min.)	ASTM-D792	1.20
100% Modulus- lb. force/in. width, min.	ASTM-D882	32
Tensile - lb. force/in. width, min.	ASTM-D882	73
Elongation at Break (% , min.)	ASTM-D882	380
Graves Tear (lb./in., min.)	ASTM-D1004	8
Impact Cold Crack (°C)	ASTM-D1790	-29
<b>Index Properties</b>		
Resistance to Soil Burial (% change max.)	ASTM-G160	
1. Breaking Factor		5
2. Elongation at Break		20
3. Modulus at 100% Elongation		20
Dimensional Stability (% change max.)	ASTM-D1204	3
Water Extraction (% , max.)	ASTM-D1239	0.15
Volatile Loss (% , max.)	ASTM-D1203(A)	0.70
Hydrostatic Resistance (psi, min.)	ASTM-D751(A)	100
<b>Minimum Specifications for Factory Fabricated Seams:</b>		
Peel Strength, lbs/in. width	ASTM-D882	15
Shear Strength, lbs/in. width	ASTM-D882	58.4



## 40 Mil PVC Geomembrane

<b>Certified Properties</b>	<b>Test Method</b>	<b>Requirement</b>
Thickness ±5%	ASTM-D5199	.040"
Specific Gravity (min.)	ASTM-D792	1.20
100% Modulus - lb. force/in. width, min.	ASTM-D882	40
Tensile - lb. force/in. width, min.	ASTM-D882	97
Elongation at Break (% , min.)	ASTM-D882	430
Graves Tear (lb./in., min.)	ASTM-D1004	10
Impact Cold Crack (°C)	ASTM-D1790	-29
<b>Index Properties</b>		
Resistance to Soil Burial (% change max.)	ASTM-G160	
1. Breaking Factor		5
2. Elongation at Break		20
3. Modulus at 100% Elongation		20
Dimensional Stability (% change max.)	ASTM-D1204	3
Water Extraction (% , max.)	ASTM-D1239	0.20
Volatile Loss (% , max.)	ASTM-D1203(A)	0.50
Hydrostatic Resistance (psi, min.)	ASTM-D751(A)	120
<b>Minimum Specifications for Factory Fabricated Seams:</b>		
Peel Strength, lbs/in. width	ASTM-D882	15
Shear Strength, lbs/in. width	ASTM-D882	77.6



## 50 Mil PVC Geomembrane

<b>Certified Properties</b>	<b>Test Method</b>	<b>Requirement</b>
Thickness $\pm 5\%$	ASTM-D5199	.050"
Specific Gravity (min.)	ASTM-D792	1.20
100% Modulus - lb. force/in. width, min.	ASTM-D882	50
Tensile - lb. force/in. width, min.	ASTM-D882	116
Elongation at Break (% , min.)	ASTM-D882	430
Tear Strength (lb./in., min.)	ASTM-D1004	13.0
Low Temp Impact ( $^{\circ}\text{C}$ )	ASTM-D1790	-29
<b>Index Properties</b>		
Resistance to Soil Burial (% change max.)	ASTM-G160	
1. Breaking Factor		5
2. Elongation at Break		20
3. Modulus at 100% Elongation		20
Dimensional Stability (% change max.)	ASTM-D1204	3
Water Extraction (% , max.)	ASTM-D1239	0.20
Volatile Loss (% , max.)	ASTM-D1203(A)	0.50
Hydrostatic Resistance (psi, min.)	ASTM-D751(A)	150
<b>Minimum Specifications for Factory Fabricated Seams:</b>		
Peel Strength, lbs/in. width	ASTM-D882	15
Shear Strength, lbs/in. width	ASTM-D882	96.0



## 60 Mil PVC Geomembrane

<b>Certified Properties</b>	<b>Test Method</b>	<b>Requirement</b>
Thickness $\pm 5\%$	ASTM-D5199	.060"
Specific Gravity (min.)	ASTM-D792	1.20
100% Modulus - lb. force/in. width, min.	ASTM-D882	60
Tensile - lb. force/in. width, min.	ASTM-D882	137
Elongation at Break (% , min.)	ASTM-D882	450
Tear Strength - (lb./in., min.)	ASTM-D1004	15.0
Low Temp Impact ( $^{\circ}\text{C}$ )	ASTM-D1790	-29
<b>Index Properties</b>		
Resistance to Soil Burial (% change max.)	ASTM -G160	
1. Breaking Factor		5
2. Elongation at Break		20
3. Modulus at 100% Elongation		20
Dimensional Stability (% change max.)	ASTM-D1204	3
Water Extraction (% , max.)	ASTM-D1239	0.20
Volatile Loss (% , max.)	ASTM-D1203(A)	0.50
Hydrostatic Resistance (psi, min.)	ASTM-D751(A)	180
<b>Minimum Specifications for Factory Fabricated Seams:</b>		
Peel Strength, lbs/in. width	ASTM-D882	15
Shear Strength, lbs/in. width	ASTM-D882	116