



# POLYVINYL CHLORIDE (PVC)

## Geomembrane Liners

PROPERTIES	TEST METHOD	SPECIFIED VALUES				
Thickness	ASTM D-5199	20 mil	30 mil	40 mil	50 mil	60 mil
<b>TENSILE PROPERTIES</b>		<b>SPECIFIED VALUES</b>				
Strength @ Break	ASTM D-882 Min	48 lbs/in 8.4 kN/m	73 lbs/in 12.8 kN/m	97 lbs/in 17.0 kN/m	116 lbs/in 20.3 kN/m	137 lbs/in 24.0 kN/m
Elongation	ASTM D-882 Min	360%	380%	430%	430%	450%
Modulus @ 100%	ASTM D-882 Min	21 lbs/in 3.7 kN/m	32 lbs/in 5.6 kN/m	40 lbs/in 7.0 kN/m	50 lbs/in 8.8 kN/m	60 lbs/in 10.5 kN/m
Tear Strength	ASTM D-1004 Min	6 lbs 27 N	8 lbs 35 N	10 lbs 44 N	13 lbs 58 N	15 lbs 67 N
Dimensional Stability	ASTM D-1204 Max Chg	4%	3%	3%	3%	3%
Low Temperature Impact	ASTM D-1790 Pass	-15° F -26° C	-20° F -29° C	-20° F -29° C	-20° F -29° C	-20° F -29° C
<b>INDEX PROPERTIES</b>		<b>SPECIFIED VALUES</b>				
Specific Gravity	ASTM D-792 Typical	1.2 g/cc	1.2 g/cc	1.2 g/cc	1.2 g/cc	1.2 g/cc
Water Extraction % loss (max.)	ASTM D-1239 Max Loss	0.15%	0.15%	0.20%	0.20%	0.20%
Average Plasticizer Molecular Weight	ASTM D-2124	400	400	400	400	400
Volatility Loss	ASTM D-1203 Max Loss	0.9%	0.7%	0.5%	0.5%	0.5%
Soil Burial Break Strength	G 160 Max Chg	5%	5%	5%	5%	5%
Soil Burial Elongation	G 160 Max Chg	20%	20%	20%	20%	20%
Soil Burial Modulus @ 100%	G 160 Max Chg	20%	20%	20%	20%	20%
Hydrostatic Resistance	ASTM D-751 Min	68 psi 470 kPa	100 psi 690 kPa	120 psi 830 kPa	150 psi 1030 kPa	180 psi 1240 kPa
<b>SEAM STRENGTHS</b>		<b>SPECIFIED VALUES</b>				
Shear Strength	ASTM D-882 Min	38.4 lbs/in 6.7 kN/m	58.4 lbs/in 10 kN/m	77.6 lbs/in 14 kN/m	96 lbs/in 17 kN/m	116 lbs/in 20 kN/m
Peel Strength	ASTM D-882 Min	12.5 lbs/in 2.2 kN/m	15 lbs/in 2.6 kN/m	15 lbs/in 2.6 kN/m	15 lbs/in 2.6 kN/m	15 lbs/in 2.6 kN/m

The above information is to the best of our knowledge accurate, but is not intended to be considered as a guarantee. Any implied warranty for a particular use or purpose is excluded. If the Product does not meet the above properties, and notice is given to US Fabrics, Inc., the product will be replaced or refunded. (1/2009).