



SOLUTIONS

ENVIRONMENTAL PROTECTION, INC.

9939 US-131 South NE
Mancelona, Michigan
49659

Toll-Free 800-OK-LINER
www.geomembrane.com

ASTM D 7177 Air Channel Testing PVC

EPI has the expertise to provide strength and continuity testing thermally welded PVC field seams according to ASTM D 7177 Standard Specification for Air Channel Evaluation of Polyvinyl Chloride (PVC) Dual Track Seamed Geomembranes. Testing is accomplished by sealing both ends of the seam and introducing air pressure into the channel between the two parallel welds. The seam is pressurized and also visually inspected. The pressure is monitored to insure weld integrity throughout the entire seam.



Testing pressure varies with the temperature of the PVC geomembrane being tested. The chart at right lists the required test pressures for the various temperatures of the liner. Passing this test verifies the peel strength of 15 lb/inch width for the full length of the PVC seam.

Sheet Temp °F	Air Pressure PSI
40	50
45	47
50	45
55	42
60	40
65	38
70	35
75	33
80	31
85	28
90	26
95	24
100	22
105	20
110	19
115	17
120	15
125	13
>130	12

Preserving water resources for future generations

Visit our Internet web site at
www.geomembrane.com