



The Liner Company

SOLUTIONS

ENVIRONMENTAL PROTECTION, INC.

1567 W. South Airport Rd.
Traverse City, Michigan
49686

Phone | 800-OK-LINER
Fax | 231-943-2270

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 °C	Air Pressure PSI
4.5	50
7	47
10	45
13	42
15.5	40
18	38
21	35
24	33
26.5	31
29.5	28
32	26
35	24
37.5	22
40.5	20
43.5	19
46	17
48.5	15
51.5	13
>54.5	12

Preserving water resources for future generations