

**ASTM E 96-95 Standard Test Methods for  
 Water Vapor Transmission of Materials**

Test Variable/Description: Shepweave II Version 3 Perforated Bottom Board

**General:**

Client: Shepherd Distribution Co.  
 Job Number: SHP010507-12  
 Performed By: Ryan Lehman  
 Test Location: NTA Testing Laboratories, Inc.  
 Nappanee, Indiana

**Apparatus:**

Asset No.  
 Test Chamber: 00010  
 Data Logger: 00580  
 Balance: 00003

**Test Material:**

Description/Trade Name: Shepweave II Version 3 Perforated Bottom Board  
 Manufacturer: Shepherd Distribution Co.  
 Average Thickness: 0.048-in.  
 Overall Size: 11x11-in.  
 Test Area Size: 10x10-in.  
 Date Received: 4/11/2007

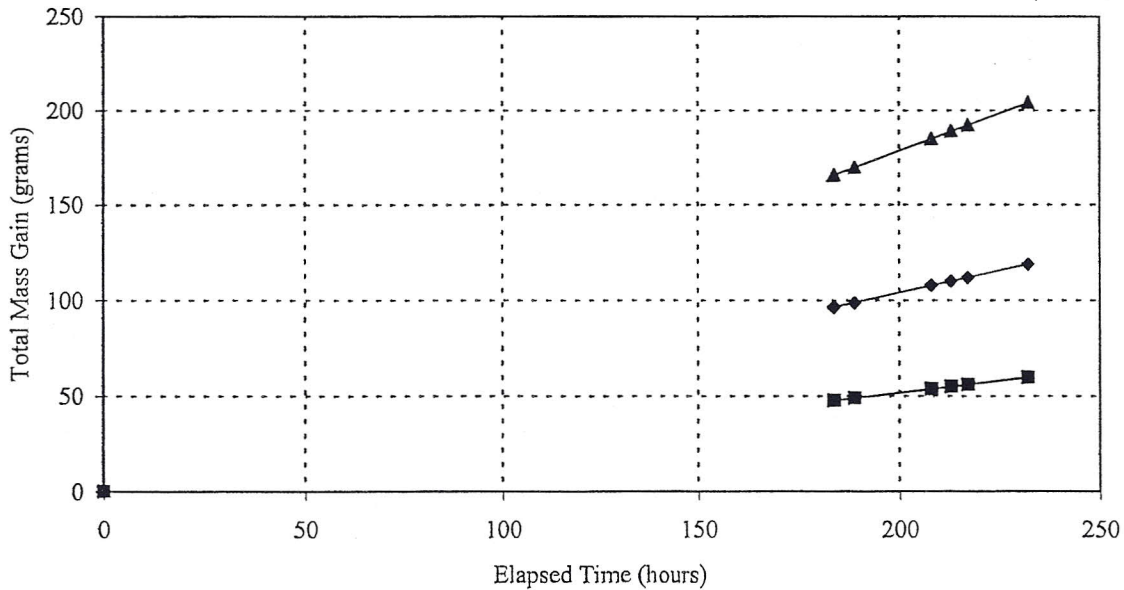
**Test Parameters:**

Test Method: *Desiccant Method*  
 Test Temperature: 90 deg. F  
 Chamber RH:: 50%  
 Pan Cavity RH: 0%  
 Start Date: 4/16/2007  
 End Date: 4/26/2007  
 Overall Duration: 232 hours  
 Sealing Method: Paraffin Wax  
 Saturation Vapor Pressure: 1.4234 in. Hg  
 Material Side A: Smooth Facing  
 Material Side B: Weave Facing

**Table 1: Test Results**

Specimen No.	Side Facing Desiccant	Average Thickness (in.)	Permeance (perms)	
1	11121	A	0.049	14.5
2	11122	A	0.047	7.9
3	11123	A	0.047	24.7
4				

**Average Result: 15.7 perm**



**Figure A1: Total Mass Gain vs. Elapsed Time**

*NOTE: The slope of the last six points is taken as the water vapor transmission rate  
 Permeance is reported to 2 significant digits per ASTM E96*

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