

WATER VAPOR TRANSMISSION TEST REPORT

This report contains the results of a water vapor transmission test done in accordance with ASTM Standard Test Method E 96-95. Results were obtained using the desiccant method described in Section 11 of the Standard. The "perm" being reported was calculated using the method outlined in Section 13 of the Standard. The specimen was tested with a square pan holding the desiccant. The edges of the specimen were sealed to the top ledge of the pan with microcrystalline wax (60%) mixed with refined crystalline paraffin wax (40%).

Description of the Test Specimen

Polyethylene foam core with aluminun foil laminated to both faces. The thickness of the material tested is 0.22 inches. Low-ETM reflective insulation.

Laboratory Identification Number ESP No. 3 Side Tested Both sides are the same		e the same	
Test Conditions	Temperature (°F) Relative Humidity (%)	102 91.2	
	Test Duration (hr)	494	
Test Results	Weight Gain (g)		0.430
	Specimen Area (ft ²)		0.2667
	Water Vapor Transmission (gr/h·ft²)		0.0502
	Saturation Pressure (in. Hg)		2.0521
	Pressure Difference (in. Hg)		1.8715
	Permeance (perm, gr/ft ² ·h·(in.Hg))		0.0268
	Permeability (perm·in.)		not applicable
	A figure showing experimental data is attached.		

Conclusion

The material is a water vapor retarder at the thickness tested since the measured permeance is less than 1.0 perm.

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