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Water Vapor Transmission Test Report

 Test Number: RD082392WV

 Date of Test: July 16 – August 3, 2008

 Specimen Number: 1021080606-7

 Date of Manufacture: 2008

 Report Prepared For: Innovative Energy, Inc. / Eric Baker

This report contains the results of a water vapor transmission test done in accordance with ASTM Test Method E 96-05. 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 round pan holding the desiccant. The edges of the specimen were sealed space around the top ledge of the pan with microcrystalline wax (60 %) mixed with refined crystalline paraffin wax (40 %).

 Description of the Test Specimen: AstroShield II – Initial Values

 Manufactured By: Innovative Energy, Inc.

Test Conditions:	Temperature(°F)	68.7
	Relative Humidity (%)	51.3
	Test Duration (hr)	675.5

Test Results:		<u>No. 1</u>	<u>No.2</u>	<u>No.3</u>
Weight Gain (g)		0.0132	0.0096	0.0141
Specimen Area (ft ²)		0.1503	0.1503	0.1503
Water Vapor Transmission (gr/h·ft ²)		0.0020	0.0015	0.0021
Saturation Pressure (in. Hg)		0.707	0.707	0.707
Pressure Difference (in. Hg)		0.344	0.344	0.344
Permeance (perm, gr/ft ² ·h·(in. Hg))		0.0058	0.0044	0.0061
Permeability (perm·in.)		n/a	n/a	n/a
Figures showing data are attached		yes	yes	yes

Result

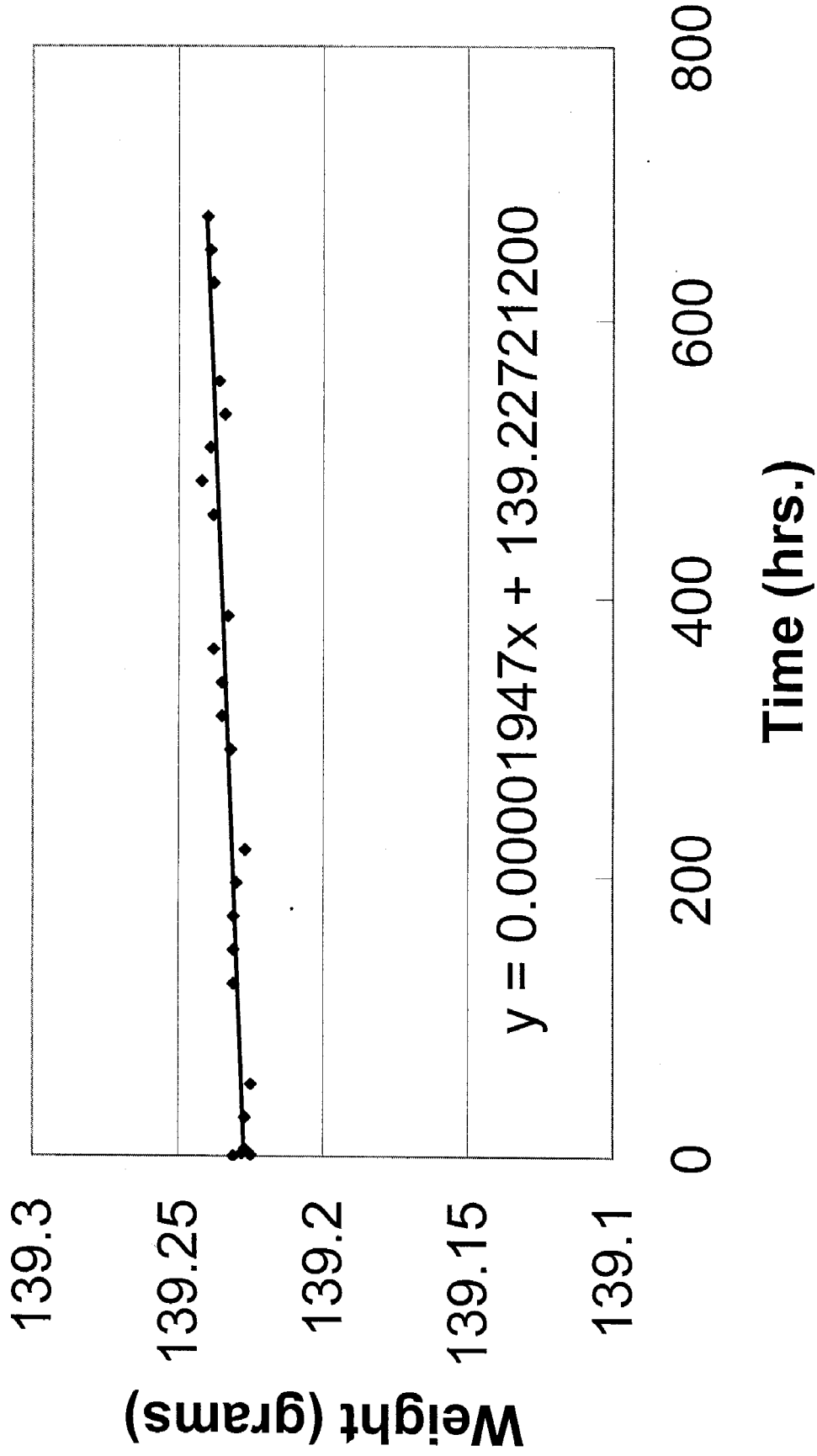
The measured average permeance for the material was 0.005 perms under the conditions of the test.

Ronald S. Swader
 Reviewed By:

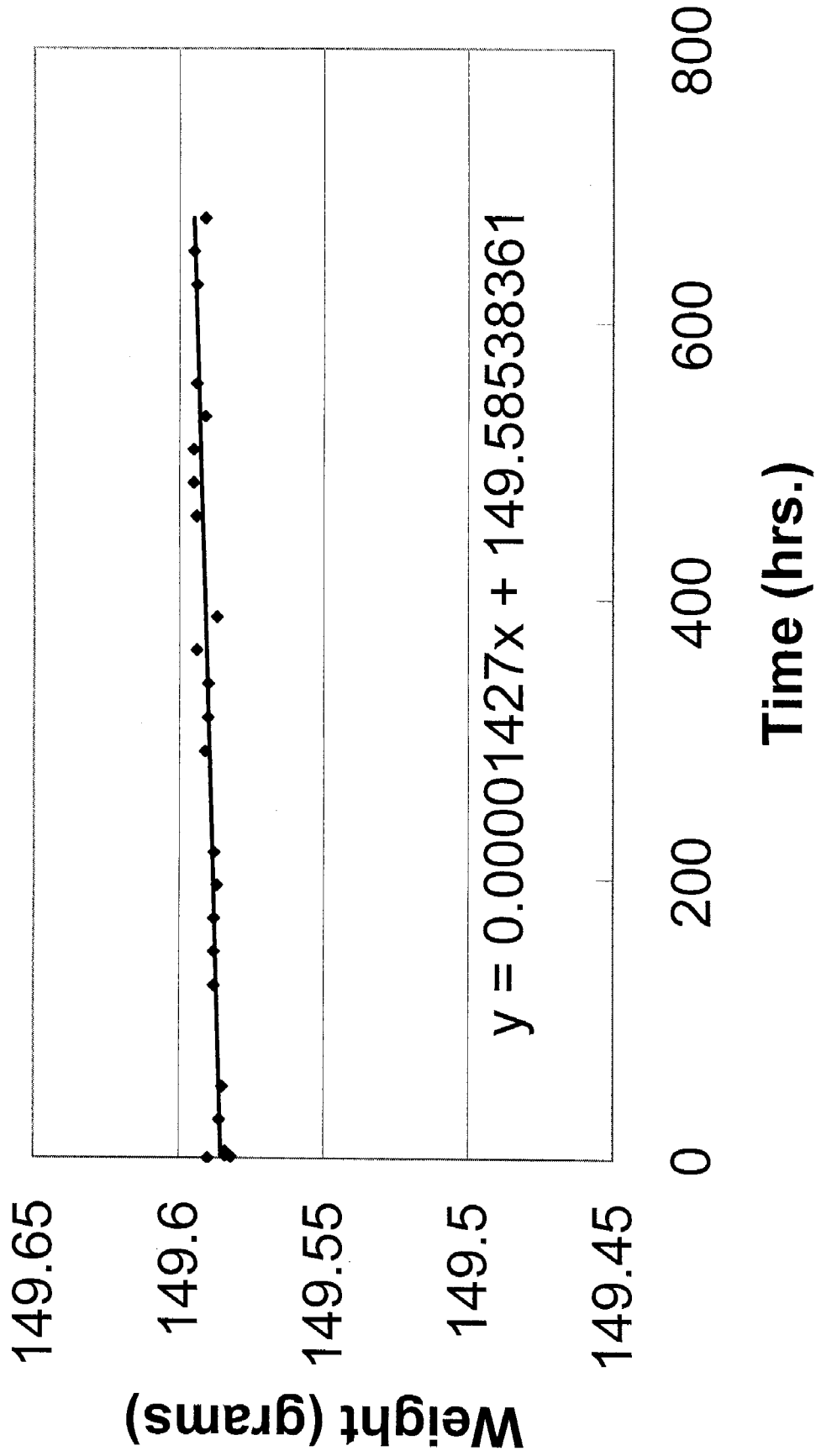
08-27-08
 Date:

The results in this report apply only to the specimen tested.

IE Specimen One



IE Specimen Two



IE Specimen Three

