



SGS U.S. Testing Company Inc.

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REPORT NUMBER: 740979-2  
DATE: 02/02/98  
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CLIENT: POLYON BARKAI INDUSTRIES, INC.  
Kibbutz Barkai  
Israel 37860

SUBJECT: WATER VAPOR TRANSMISSION OF POLYNUM INSULATION

REFERENCES: 1. Our confirmation to the Client dated December 29, 1997  
2. ASTM E96-95, "Water Vapor Transmission of Materials".

SAMPLE ID: On November 17, 1997, the Client submitted and identified the sample material as Polynum Insulation.

PROCEDURE: Testing was performed in accordance with Method A (Desiccant) of the referenced ASTM E 96 Standard. Three, 3¼-inch diameter specimens were prepared from the submitted sample and sealed to Thwing-Albert water vapor permeability cups as outlined in Figure X2.2, Type D, of the referenced ASTM E96 Standard. The specimens were sealed with a composite wax material composed of 60% white beeswax and 40% Fisher Tissueprep (paraffin/synthetic polymer blend). Weight measurements were taken every 24 hours, except on weekends, until constant weight was achieved. The water vapor permeance was calculated as outlined in the referenced ASTM E96 Standard.

TEST DATES: Between January 19 and 30, 1998

RESULTS:

| <u>Specimen</u> | <u>Permeance</u><br><u>(perms)</u> |
|-----------------|------------------------------------|
| 1               | 0.017                              |
| 2               | 0.020                              |
| 3               | <u>0.017</u>                       |
| Average         | 0.018                              |

End of Report

SIGNED FOR THE COMPANY:

Larry Burmer  
Senior Project Engineer

David Pereg  
Manager, Engr. Dept.

Member of the SGS Group

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