

SGS U.S. Testing Company Inc.

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Report Number: 203609-01

Date: 06/27/97
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Client: Inpro Corporation S. 80W. 18766 Apollo Drive/PO Box 406

Muskego, WI 53150

Subject: Samples submitted and identified by the client as: Rigid Vinyl

Material (PVC).

Sample Description: 2"x2" white squares.

Project: Fungal and Bacterial Resistance Testing

Test Dates: 05/29/97 - 06/26/97

Procedure: A. ASTM G-21

The testing was conducted in accordance with the procedures outlined in ASTM G-21-90, "Determining Resistance of Synthetic Polymeric Materials to Fundi"

Polymeric Materials to Fungi".

The samples were placed on a mineral salts medium and sprayed with a combined inoculum of the following spore suspensions.

	AICC
Aspergillus niger	9642
Penicillium funiculosum	9644
Chaetomium globosum	6205
Gliocladium virens	9645
Aureobasidium pullulans	9348

After inoculation, samples and controls were placed in a "tropical test chamber" and incubated at a temperature of 30 \pm 1°C relative humidity greater than 85%.

The total incubation period was 21 days.

Prepared by:

SIGNED FOR THE COMPANY BY:

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Member of the SGS Group

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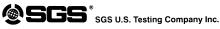
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STAND ALL OF THE DETAILS OF THE ENDAGEMENT REPORTS REFLECT RESULTS ONLY OF THE STANDARDS OR PROCEDURES IDENTIFIED TO THE TESTS CONDUCTED AND ARE LIMITED

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B. ASTM G-22

The testing was conducted in accordance with the procedures outlined in ASTM G-22, "Determining Resistance of Synthetic Polymeric Materials to Bacteria".

The samples were placed on a mineral salts medium and inoculated with the test organisms <u>Pseudomonas aeruginosa</u>, ATCC #13388, <u>E. Coli</u> ATCC #8739 and <u>Staphylococcus aureus</u> 6538. The test sample and control were then incubated 21 days at 35°C and 85% Relative Humidity.

* <u>E. Coli</u> and <u>Staphylococcus</u> <u>aureus</u> were tested at the client's request.

Results:

A. <u>ASTM G-21</u>

Sample	Evaluation of Fungal Growth
Rigid Vinyl Material (PVC)	0
Environmental Controls (paper, cork, cotton, leather)	3,4
Viability Control	4

ASTM Rating	Observed Growth on Specimens
0	None
1	Traces of Growth (less than 10%)
2	Light Growth (10-30%)
3	Medium Growth (30-60%)
4	Heavy Growth (60% to complete coverage)

B. ASTM G-22

Sample Evaluation of Bacterial Growth

Rigid Vinyl Material (PVC) 0
Viability Control Heavy Growth

<u>Conclusion</u>: The submitted samples of Rigid Vinyl Material (PVC) did not support

fungal or bacterial growth, when tested as specified.