



SGS U.S. Testing Company Inc.

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Report Number: 203609-01

Date: 06/27/97

Page: 1 of 2

**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 Fungi".

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

	ATCC #
<u>Aspergillus niger</u>	9642
<u>Penicillium funiculosum</u>	9644
<u>Chaetomium globosum</u>	6205
<u>Gliocladium virens</u>	9645
<u>Aureobasidium pullulans</u>	9348

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

The total incubation period was 21 days.

**Prepared by:**

**SIGNED FOR THE COMPANY BY:**

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REPORT OF TEST

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SGS U.S. Testing Company Inc.

**Client:** Inpro Corporation

**Report Number:** 203669-01

**Date:** 06/27/97

**Page:** 2 of 2

#### 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 *Pseudomonas aeruginosa*, ATCC #13388, *E. Coli* ATCC #8739 and *Staphylococcus aureus* 6538. The test sample and control were then incubated 21 days at 35°C and 85% Relative Humidity.

\* *E. Coli* and *Staphylococcus aureus* were tested at the client's request.

#### Results:

##### A. ASTM G-21

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

<u>*ASTM Rating</u>	<u>Observed Growth on Specimens</u>
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

<u>Sample</u>	<u>Evaluation of Bacterial Growth</u>
Rigid Vinyl Material (PVC)	0
Viability Control	Heavy Growth

**Conclusion:** The submitted samples of Rigid Vinyl Material (PVC) did not support fungal or bacterial growth, when tested as specified.