



**CLIENT:** Inpro Corporation  
Attn: Matt Bennett  
S 80 W 18766 Apollo Dr.  
Muskego, WI 53150

**Report No.:** 07S10003444-07S10003445/R1

**Date:** 4/27/2010

**The following samples were submitted by the client as:**

- 1) BioPolyPETG + G2 Material
- 2) BioPolyPETG + G2 Material

**SAMPLE DESCRIPTION:** White and Green Tiles

**DATE OF RECEIPT:** 3/16/10

**TESTING PERIOD:** 3/18/10 – 4/15/10

**TESTS REQUESTED:** Fungal Resistance Testing, ASTM G-21  
Bacterial Resistance Testing, ASTM G-22

**TEST RESULTS:** Page 3-4

**CONCLUSIONS:** The submitted samples were found to be fungus and bacteria resistant when tested as specified.

**SIGNED FOR AND ON BEHALF OF  
SGS U.S. TESTING COMPANY INC.**

Erin Ricciardi  
Manager, Microbiology

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## PROCEDURE:

### A. ASTM G-21

The testing was conducted in accordance with the procedures outlined in ASTM G-21-96, "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.

<u>Organism</u>	<u>ATCC #</u>
<i>Aspergillus niger</i>	9642
<i>Penicillium funiculosum</i>	11797
<i>Chaetomium globosum</i>	6205
<i>Gliocladium virens</i>	9645
<i>Aureobasidium pullulans</i>	15233

After inoculation with the above organisms, samples were evaluated by rating the extent of developing visible growth (including microscopic growth). Samples and controls were placed in a "tropical test chamber" and incubated at a temperature of  $30 \pm 1^\circ\text{C}$  and relative humidity greater than 85%. The total incubation period was 28 days.

### B. ASTM G-22

The testing was conducted in accordance with the procedures outlined in ASTM G-22-96, "Standard Practice for Determining Resistance of Plastics to Bacteria".

The samples were placed on a mineral salts medium and inoculated with the test organism *Pseudomonas aeruginosa*, ATCC #13388. The test sample and controls were then incubated 21 days at  $35^\circ - 37^\circ\text{C}$ .

Samples were evaluated by rating the development and extent of microbial growth on the sample or in the surrounding medium.



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## TEST RESULTS:

### A. ASTM G-21

#### Evaluation of Fungal Growth

<u>Sample</u>	<u>Replicates</u>	<u>Day 0</u>	<u>Day 7</u>	<u>Day 14</u>	<u>Day 21</u>	<u>Day 28</u>
1)BioPolyPETG + G2 Material	1	0	0	0	0	0
	2	0	0	0	0	0
	3	0	0	0	0	0
2)BioPolyPETG + G2 Material	1	0	0	0	0	0
	2	0	0	0	0	0
	3	0	0	0	0	0
<b><u>Controls</u></b>						
Positive (paper/cork)		0/0	4/4	4/4	4/4	4/4
Positive (viability)		0	4	4	4	4
Negative (glass slide)		0	0	0	0	0

#### 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)

## Summary:

The submitted samples did not support fungal growth. The positive and viability controls supported heavy growth, while the negative did not support growth, thus validating the test procedure.



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**TEST RESULTS (Continued):**

**B. ASTM G-22**

<u>Sample</u>	<u>Replicates</u>	<u>Day 0</u>	<u>Day 7</u>	<u>Day 14</u>	<u>Day 21</u>
1) BioPoly PETG + G2 Material	Inoculated- 1	0	0	0	0
	Inoculated- 2	0	0	0	0
	Inoculated- 3	0	0	0	0
2) BioPoly PETG + G2 Material	Inoculated- 1	0	0	0	0
	Inoculated- 2	0	0	0	0
	Inoculated- 3	0	0	0	0
1) BioPoly PETG + G2 Material	Uninoculated - 1	0	0	0	0
	Uninoculated - 2	0	0	0	0
	Uninoculated - 3	0	0	0	0
2) BioPoly PETG + G2 Material	Uninoculated - 1	0	0	0	0
	Uninoculated - 2	0	0	0	0
	Uninoculated - 3	0	0	0	0
<b><u>Controls</u></b>					
Positive (tubing)		0	4	4	4
Negative (glass slide)		0	0	0	0

All positive ratings confirmed as *Pseudomonas aeruginosa*, the test organism.

**Summary:**

The submitted samples did not support bacterial growth. The positive control supported heavy growth, while the negative did not, thus validating the test results.

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End of Report