



## TEST REPORT

**CLIENT:** IPS Corporation  
PO BOX 220  
Collierville, TN 38017  
  
Attn: Jim Whitehead

<b>Test Report No:</b>	<b>654:01937</b>	<b>Date:</b>	<b>January 23, 2009</b>
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**SUBJECT:** Rate of Burning and / or Extent and Time of Burning of Plastics in a Horizontal Position

**SAMPLE ID:** Fifteen samples measuring a nominal 125 mm x 13 mm x 2.9 (nominal) mm were received from the client on 1/20/09 in good condition. The identification of the samples is as listed:

- **TRUBRO Lav Guard Protective Pipe Cover**

**PROCEDURES:** The material was tested for flammability in accordance with ASTM D 635-06, Rate of Burning and / or Extent and Time of Burning of Plastics in a Horizontal Position.

**TEST DATES:** 1/22/09

**RESULTS:** The material tested is classified as HB according to Appendix X.1 (X.1.2.1 There are no visible signs of combustion after the ignition source is removed). The test results are on the following page.

**CERTIFICATION:** The tests reported here were conducted under continuous, direct supervision of SGS U. S. Testing Company Inc., Tulsa, OK.

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

Terry Hurst  
Engineering Technician / Test Operator

J. Brian McDonald  
Fire Technology Department Manager

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**TEST RESULTS:**

**IDENTIFICATION:**

*TRUBRO Lav Guard Protective Pipe Cover*

Test Number	Passed 25-mm Length	Reached 100-mm Length	Time <sup>1</sup> (sec)	Linear Burn Rate <sup>2</sup> (mm/min)
1	NO	NO	0	0
2	NO	NO	0	0
3	NO	NO	0	0
4	NO	NO	0	0
5	NO	NO	0	0
6	NO	NO	0	0
7	NO	NO	0	0
8	NO	NO	0	0
9	NO	NO	0	0
10	NO	NO	0	0
<b>AVERAGE</b>			0	0

<sup>1</sup> – References the time elapsed from the 25-mm mark to the 100-mm mark or the point of extinguishment for samples exceeding the 25-mm mark but not reaching the 100-mm mark

<sup>2</sup> – References burn length per Time<sup>1</sup>

Note: None of the 10 specimens produced any sustained flaming after the 30 seconds of burner exposure. Very little smoke was noted during flame exposure and no flaming or dripping occurred with any of the ten specimens.

Per Section 9.8 of ASTM D 635, the test procedure must be repeated until three specimens have burned to or beyond the 100 mm reference mark, or ten specimens have been burned.

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**END OF REPORT**



United States Testing Company, Inc.  
Engineering Services Division

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**REPORT OF TEST**  
**LAV GUARD™**

**CLIENT:** Truebro  
P.O. Box 429  
Ellington, CT 06029

**NUMBER:** 102117-2  
September 17, 1991

**SUBJECT:** Thermal Conductivity/Thermal Resistance

**REFERENCE:**

Truebro, Letter of Authorization dated August 31, 1991.

**SAMPLE IDENTIFICATION:**

One (1) sample of material was submitted and identified by the Client as follows:

PVC Sheet with a Shore "A" 65 Hardness

**TEST PERFORMED:**

The submitted sample was tested for Thermal Conductivity/Thermal Resistance in accordance with the procedures outlined in ASTM Test Method C-177.

**TEST RESULTS:**

Sample Thickness, IN	0.193
Hot Face Temperature, °F	81.61
Cold Face Temperature, °F	65.17
Average Test Temperature, °F	73.39
Thermal Conductivity, (k), Btu-in/hr-ft <sup>2</sup> -°F	1.17
Total Thermal Resistance, (R), Hr-ft <sup>2</sup> -°F/Btu	0.165

Testing Supervised by:

*Frank Savino*

Frank Savino, Supervisor  
Materials Engineering Section

SIGNED FOR THE COMPANY

By *Frank Pepe*

Frank Pepe  
Vice President

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SGS U.S. Testing Company Inc.

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Report Number: 105665

Date: 04/08/98

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**Client:** Truebro, Inc.  
7 Main Street  
Ellington, CT 06029

**Subject:** Samples submitted and identified by the client as: Lav Shield.

**Sample Description:** White, plastic-like pliable solid.

**Project:** Fungal and Bacterial Resistance Testing

**Test Dates:** 03/11/98 - 04/08/98


**Procedure:** ASTM G-21 and G-22

The testing was conducted in accordance with the procedures outlined in ASTM G-21-96, "Determining Resistance of Synthetic Polymeric Materials to Fungi", and ASTM G-22-96, "Determining Resistance of Plastics to Bacteria".

The sample was placed on a mineral salts medium and sprayed with the following organisms:

<u>ASTM G-21</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>Aurebasidium pullulans</i>	15233

**Prepared by:**

  
Joseph Lacirignola  
Laboratory Technician

**SIGNED FOR THE COMPANY BY:**

  
D. Keith Goins, Ph.D.  
Manager, Microbiology

Member of the SGS Group

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REPORT OF TEST