

**United States Testing Company, Inc.**

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**REPORT OF TEST****Engineering Services****CLIENT:** Institutional Products Corp.  
S. 80W 18766 Apollo Drive  
Muskego, Wisconsin 53150**NUMBER:** 108962  
Sept. 16, 1993**SUBJECT:** Smoke Density**REFERENCE:**

I.P.C., Purchase Order Number 110397.

Sample Rec'd: 9/9/93

Test Date: 9/16/93

**SAMPLE IDENTIFICATION:**

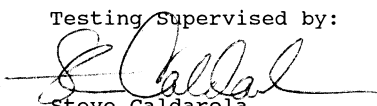
Four (4) samples were submitted and identified by the Client as:

- 1) 0.028" Rigid PVC Sheet Materials
- 2) 0.040" Rigid PVC Sheet Materials
- 3) 0.060" Rigid PVC Sheet Materials
- 4) 0.080" Rigid PVC Profile Materials

**TEST PERFORMED:**

The submitted samples were tested for Flammability in accordance with the procedures specified in ASTM D-635-74, "Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position" as referenced in UBC 52-4-1988.

Testing Supervised by:

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lv  
Steve Caldarola  
Senior Supervisor  
Fire Technology**SIGNED FOR THE COMPANY****BY**   
John Lomash  
Vice President

Member of the SGS Group (Société Générale de Surveillance)

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**United States Testing Company, Inc.****CLIENT:** Institutional Products Corp.**NUMBER:** 108962**TEST RESULTS:****Sample:** 0.028" Rigid PVC Sheet

<u>Specimen</u>	<u>Dimensions, IN</u>	<u>Burning Time, T-30 Seconds</u>	<u>Extent of Burning, IN</u>
1	0.032 x 0.50 x 5.00	0	0.59
2	0.032 x 0.50 x 5.00	0	0.59
3	0.032 x 0.50 x 5.00	0	0.59
4	0.032 x 0.50 x 5.00	0	0.78
5	0.032 x 0.50 x 5.00	0	0.59
6	0.032 x 0.50 x 5.00	0	0.59
7	0.032 x 0.50 x 5.00	0	0.59
8	0.032 x 0.50 x 5.00	0	0.59
9	0.032 x 0.50 x 5.00	0	0.59
10	0.032 x 0.50 x 5.00	0	0.78
Average		Less Than 5 (ATB)	0.6** (AEB)

**Observations:** Charring, curling.**NOTE:** No burn rates could be determined on the sample since the specimens extinguished prior to reaching the 4-inch mark.

This material is classified CC1.

\*Rounded after averaging to the nearest multiple of 5.

\*\*Rounded after averaging to the nearest 0.2 of an inch.

**United States Testing Company, Inc.****CLIENT:** Institutional Products Corp.**NUMBER:** 108962**TEST RESULTS:** (cont'd)**Sample:** 0.040" Rigid PVC Sheet

<u>Specimen</u>	<u>Dimensions, IN</u>	<u>Burning Time, T-30 Seconds</u>	<u>Extent of Burning, IN</u>
1	0.042 x 0.50 x 5.00	0	1.00
2	0.042 x 0.50 x 5.00	0	0.78
3	0.042 x 0.50 x 5.00	0	0.78
4	0.042 x 0.50 x 5.00	0	0.59
5	0.042 x 0.50 x 5.00	0	0.59
6	0.042 x 0.50 x 5.00	0	0.78
7	0.042 x 0.50 x 5.00	0	0.59
8	0.042 x 0.50 x 5.00	0	0.59
9	0.042 x 0.50 x 5.00	0	0.59
10	0.042 x 0.50 x 5.00	0	0.59
Average		Less Than 5 (ATB)	0.8** (AEB)

**Observations:** Charring, curling.**NOTE:** No burn rates could be determined on the sample since the specimens extinguished prior to reaching the 4-inch mark.

This material is classified CC1.

\*Rounded after averaging to the nearest multiple of 5.

\*\*Rounded after averaging to the nearest 0.2 of an inch.

**United States Testing Company, Inc.****CLIENT:** Institutional Products Corp.**NUMBER:** 108962**TEST RESULTS:** (cont'd)**Sample:** 0.060" Rigid PVC Sheet

<u>Specimen</u>	<u>Dimensions, IN</u>	<u>Burning Time, T-30 Seconds</u>	<u>Extent of Burning, IN</u>
1	0.061 x 0.50 x 5.00	0	0.39
2	0.061 x 0.50 x 5.00	0	0.78
3	0.061 x 0.50 x 5.00	0	0.39
4	0.061 x 0.50 x 5.00	0	0.59
5	0.061 x 0.50 x 5.00	0	0.59
6	0.061 x 0.50 x 5.00	0	0.59
7	0.061 x 0.50 x 5.00	0	0.59
8	0.061 x 0.50 x 5.00	0	0.39
9	0.061 x 0.50 x 5.00	0	0.59
10	0.061 x 0.50 x 5.00	0	0.59
Average		Less Than 5 (ATB)	0.6** (AEB)

**Observations:** Charring, curling.**NOTE:** No burn rates could be determined on the sample since the specimens extinguished prior to reaching the 4-inch mark.

This material is classified CC1.

\*Rounded after averaging to the nearest multiple of 5.

\*\*Rounded after averaging to the nearest 0.2 of an inch.

**United States Testing Company, Inc.****CLIENT:** Institutional Products Corp.**NUMBER:** 108962**TEST RESULTS:** (cont'd)**Sample:** 0.080" Rigid PVC Profile

<u>Specimen</u>	<u>Dimensions, IN</u>	<u>Burning Time, T-30 Seconds</u>	<u>Extent of Burning, IN</u>
1	0.078 x 0.50 x 5.00	0	0.78
2	0.078 x 0.50 x 5.00	0	0.78
3	0.078 x 0.50 x 5.00	0	0.78
4	0.078 x 0.50 x 5.00	0	0.59
5	0.078 x 0.50 x 5.00	0	0.59
6	0.078 x 0.50 x 5.00	0	0.78
7	0.078 x 0.50 x 5.00	0	0.78
8	0.078 x 0.50 x 5.00	0	0.78
9	0.078 x 0.50 x 5.00	0	0.59
10	0.078 x 0.50 x 5.00	0	0.59
Average		Less Than 5 (ATB)	0.8** (AEB)

**Observations:** Charring, curling.**NOTE:** No burn rates could be determined on the sample since the specimens extinguished prior to reaching the 4-inch mark.

This material is classified CC1.

\*Rounded after averaging to the nearest multiple of 5.

\*\*Rounded after averaging to the nearest 0.2 of an inch.