



SGS U.S. Testing Company Inc.

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REPORT NUMBER: 740979-1
DATE: 1/21/98
PAGE: 1 OF 4

CLIENT: POLYON BARKAI IND., LTD
Kibbutz Barkai
Israel 37860

SUBJECT: FLAME SPREAD CLASSIFICATION AND SMOKE DENSITY
DEVELOPED

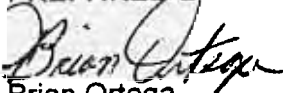
REFERENCES: 1. Our confirmation to the Client dated December 29, 1997.
2. Test sample received on November 17, 1997.
3. Testing conducted on January 9, 1998.
4. Testing authorized by Haim Levy.

SAMPLE ID: The Client submitted and identified the sample material as:

Polynum Insulation

TEST PROCEDURE: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-97a, "Standard Method of Test for Surface Burning Characteristics of Building Materials". The foregoing test procedure is comparable to UL 723, ANSI/NFPA No. 255, and UBC No. 8-1.

PREPARED BY:


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REPORT OF TEST

CLIENT: POLYON BARKAI IND., LTD

REPORT OF TEST

PREPARATION AND

The sample material was submitted in one piece, 24" wide by 24' long. The sample was supported during testing by 2" hexagonal mesh poultry netting running the length of the test chamber and ¼" round metal rods placed at two foot intervals across the width of the test chamber.

Prior to testing, the samples were placed in the conditioning room (maintained at 73.4 ± 5°F and a relative humidity of 50 ± 5%) and allowed to reach moisture equilibrium.

**SUMMARY OF
 ASTM E84 RESULTS:**

Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5.

<u>SAMPLE IDENTIFICATION</u>	<u>FLAME SPREAD</u>	<u>SMOKE DENSITY</u>
Polynum Insulation	20	60

In order to obtain the Flame Spread Classification, the above results should be compared to the following table:

<u>NFPA CLASS</u>	<u>UBC CLASS</u>	<u>FLAME SPREAD</u>
A		0 through 25
B	II	26 through 75
C	III	76 through 200

BUILDING CODES CITED:

- 1 National Fire Protection Association, ANSI/NFPA No. 101, "Life Safety Code", 1994 Edition
2. Uniform Building Code, 1994 Edition, Chapter 8, Interior Finishes, Sections 801-807.

CLIENT: POLYON BARKAI IND., LTD

E 84 TEST DATA SHEET: CLIENT: Polyon Barkai Ind., Ltd DATE: 1/9/98

SAMPLE: Polynum Insulation

FLAME SPREAD: IGNITION: 2 minutes, 18 seconds

FLAME FRONT: 5.5 feet maximum

TIME TO MAXIMUM SPREAD: 5 minutes, 34 seconds

TEST DURATION: 10 minutes

CALCULATION: 34.00 X 0.515 = 17.51

SUMMARY: FLAME SPREAD: 20

SMOKE DENSITY: 60

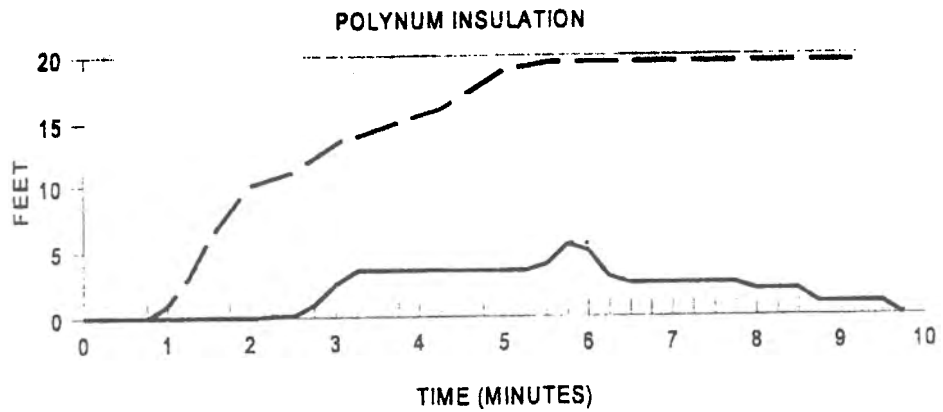
OBSERVATIONS: Sample surface ignition occurred at 2 minutes, 18 seconds. A maximum flame front advance of 5.5 feet was observed at 5 minutes, 34 seconds.

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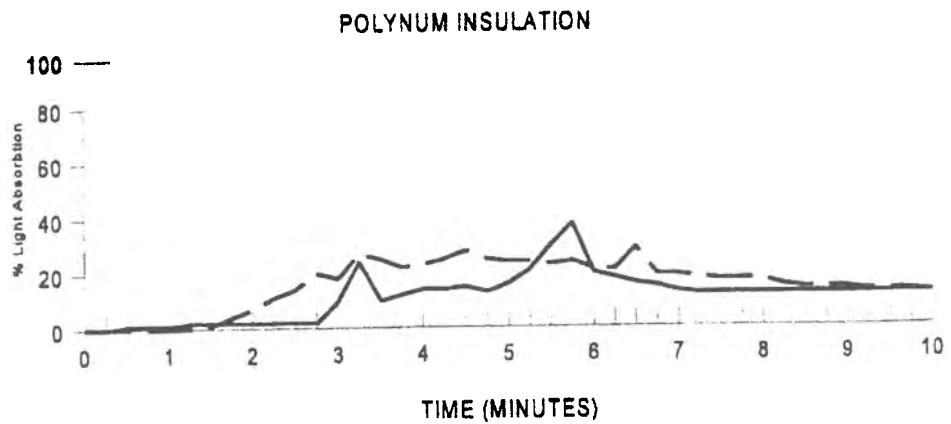
REPORT OF TEST

FLAME SPREAD AREA



SAMPLE RED OAK F.S. AREA

SMOKE DENSITY



— SAMPLE RED OAK

End of Report