



CLIENT: 3M COMMERCIAL GRAPHICS

Building 207-BW-09
St. Paul, MN 55144
Diane Clifton

Test Report No: 914:050708-5

Date: May 8, 2008

SAMPLE ID: The following test material identified as 3M™ Panagraphics™ III Wide Width Flexible Substrate.

DATE OF RECEIPT: Entered into SGS USTC sample tracking system on April 25, 2008.

TESTING PERIOD: May 8, 2008.

AUTHORIZATION: Client's Purchase Order No. USMMM137JA.

TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-07, "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.

TEST RESULTS: Flame Spread Smoke Developed

20

165

For detailed results see page 2.

Tested by

Brian Ortega
Test Technician

**Signed for and on behalf of
SGS U.S. Testing Company Inc.**

Greg Banasky
Supervisor Fire Technology

Page 1 of 2

This report is issued by SGS U.S. Testing Company Inc. under its General Conditions for Testing Services (copy available on request). SGS U.S. Testing's responsibility under this report is limited to proven negligence and will in no case be more than the amount of the testing fees. Except by special arrangement, samples are not retained by SGS U.S. Testing for more than 30 days. The results shown on this test report refer only to the sample(s) tested unless otherwise stated, under the conditions agreed upon. Anyone relying on this report should understand all of the details of the engagement. Neither the name, seals, marks nor insignia of SGS U.S. Testing may be used in any advertising or promotional materials without the prior written approval of SGS U.S. Testing. The test report cannot be reproduced, except in full, without prior written permission of SGS U.S. Testing Company Inc.

CLIENT: 3M COMMERCIAL GRAPHICS

PREPARATION AND CONDITIONING: The sample material was submitted in one piece, 22" wide by 24" long, conforming to test chamber dimensions. . The sample was supported during testing by 2" hexagonal mesh poultry netting running the length of the test chamber and 1/4" round metal rods placed at two foot intervals across the width of the test chamber.

E 84 TEST DATA SHEET:CLIENT: 3M Commercial Graphics DATE: 05/08/08SAMPLE: 3M™ Panagraphics™ III Wide Width Flexible Substrate**FLAME SPREAD:**IGNITION: 13 secondsFLAME FRONT: 4 feet maximumTIME TO MAXIMUM SPREAD: 37 secondsTEST DURATION: 10 minutesCALCULATION: $38.37 \times 0.515 = 19.76$

SUMMARY: FLAME SPREAD: 20 SMOKE DEVELOPED: 165

SUMMARY OF ASTM E84 RESULTS: Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5. Smoke Developed values over 200 are rounded to the nearest figure divisible by 50.

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

<u>NFPA CLASS</u>	<u>IBC CLASS</u>	<u>FLAME SPREAD</u>	<u>SMOKE DEVELOPED</u>
A	I	0 through 25	Less than or equal to 450
B	II	26 through 75	Less than or equal to 450
C	III	76 through 200	Less than or equal to 450

BUILDING CODES CITED:

1. National Fire Protection Association, ANSI/NFPA No. 101, "Life Safety Code", 1994 Edition.
2. IBC 2006, Chapter 8, Interior Finishes, Sections 801-8065.

End of Report