



United States Testing Company, Inc.

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REPORT OF TEST

REPORT #: 112923-2

DATE: 11/14/94

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CLIENT: BGF Industries, Inc.	/	Smoke & Fire Prevention Systems
110 Andrews Street	/	Rt. 2, Box 552F
Greensboro, NC 27406	/	Clarksville, VA 23927

ATTN: Bill Schwartz

REFERENCE:

BGF Industries, Inc. and Smoke & Fire Prevention Systems Purchase Order No. 0733-0096. Sample received October 31, 1994.

SAMPLE IDENTIFICATION:

One (1) set of samples was submitted and identified by the client as "Coated Fiberglass Fabric Styles 7721 to 7729, 972 Finish."

TEST PERFORMED AND RESULTS:

Flaming and smoldering tests were conducted in an Aminco-NBS Smoke Density Chamber. Cat. No. 4-5800.

The test parameters and results of these tests are presented in the following tabulations.

Testing Supervised by:

Trish Arias
Supervisor - Flammability
Textile Services

TA/ad

SIGNED FOR THE COMPANY BY:

Dominick A. Martucci
Technical Director
Textile Services



Member of the SGS Group (Société Générale de Surveillance)

• Biology • Chemistry • Environmental • Materials • Facilities in Principal Cities •

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TESTS PERFORMED AND RESULTS:

Smoke Density Test
 (ASTM E662)

Sample:

Description: "Coated Fiberglass Fabric, Style 7721 to 7729, 972 Finish"
 Preconditioning: 140°F. for 24 Hours
 Conditioning: 70 ± 2°F. & 50 ± 2% R.H. for 48 Hours
 Test Orientation: Face to Furnace

Operating Conditions:

Radiometer Rdg. 8.78 mv; Irradiance 2.5 w/cm², G Factor 132
 Thermal Exposure: Smoldering
 Furnace Voltage: 110

	<u>#1</u>	<u>#2</u>	<u>#3</u>	
Chbr. Temp. °F. (start)	95	95	95	
Chbr. Press, Inches H ₂ O	Maintained Positive Under 3			
Min. Trans. (Tm), %	88	89	90	
at, minutes	10.4	10.4	12.7	
Max. Spec. Opt. Dens. (Dm)	7	7	6	
Clear Beam, Dc.	1	1	0	
Dm, corrected (Dmc)	6	6	6	<u>Avg.</u> 6.0
Spec. Opt. Density at 1.5 min.	4	3	2	3.0
Spec. Opt. Density at 4.0 min.	4	3	2	3.0
Time to 90% DM, min.	5.0	6.4	8.2	
Time to Ds=16, min.	-	-	-	
Initial Weight, grams	1.9	1.9	1.9	

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CLIENT: BGF Ind.
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TESTS PERFORMED AND RESULTS: Cont'd

Operating Conditions:

Radiometer Rdg. 8.78 mv; Irradiance 2.5 w/cm², G Factor 132

Thermal Exposure: Flaming

Furnace Voltage: 110

Burner Fuel: 500 cc/min. Air, 50 cc/min. Propane

	<u>#1</u>	<u>#2</u>	<u>#3</u>	
Chbr. Temp. °F. (start)	95	95	95	
Chbr. Press, Inches H ₂ O	Maintained Positive Under 3			
Min. Trans. (Tm), %	82	82	86	
at, minutes	14.0	6.0	9.0	
Max. Spec. Opt. Dens. (Dm)	11	9	9	
Clear Beam, Dc.	1	1	1	
Dm, corrected (Dmc)	10	8	8	<u>Avg.</u> 8.7
Spec. Opt. Density at 1.5 min.	3	4	4	3.7
Spec. Opt. Density at 4.0 min.	7	7	7	7.0
Time to 90% DM, min.	7.0	4.0	4.8	
Time to Ds=16, min.	-	-	-	
Initial Weight, grams	1.9	1.9	1.9	