

United States Testing Company, Inc.

291 FAIRFIELD AVENUE • FAIRFIELD, NEW JERSEY 07004 • 201-575-5252 • Fax: 201-575-8271

REPORT OF TEST

Engineering Services

CLIENT:

Allesco, Inc.

770 North Halsted

Suite 107

Chicago, IL 60622 NUMBER: 110825

April 7, 1994

Shock Absorbing Properties of Playing Surfaces SUBJECT:

REFERENCE:

Allesco, Inc., Letter of Authorization dated March 22, 1994.

Samples Received: March 25, 1994

SAMPLE IDENTIFICATION:

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

1-1/4" Flip-Flop Puzzle Mats

TEST PERFORMED:

The submitted sample was evaluated for Shock Absorbing Properties in accordance with the procedures outlined in ASTM F-1292-93, Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment, except that the test was performed only at room temperature.

Testing Supervised by:

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Frank Laving Frank Savino, Manager

Materials Engineering Section

SIGNED FOR THE COMPANY

Frank Pepe Vice President

SGS Member of the SGS Group (Société Générale de Surveillance)

Biology

Chemistry

Environmental

Materials

Facilities in Principal Cities

United States Testing Company, Inc.

CLIENT: Allesco, Inc.

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TEST RESULTS SUMMARY

Sample:

1-1/4" Flip-Flop Puzzle Mats

Sample Dimensions: 11" x 11" (Minimum) x 1-1/4"

Test Procedure:

ASTM F-1292-93 and F-355-86, Procedure C

<u>Missile:</u>

ANSI C Headform in Crown Position; Total Drop Assembly

Weight 5 kg (11 pounds)

Test Date:

April 4, 1994

<u>Temperature</u>

Maximum Drop Height That Gives a "G" Max of 200 or Less and an HIC of 1000 or Less

Ambient, 23°C (73°F)

4 Feet

Cold, -1°C (30°F)

N/A

Hot, 49°C (120°F)

N/A

Temperature: 23°C (73°F)

Drop No.	Drop Height, FT	"G" Max.	HIC	Impact Velocity, m/sec
1	3	98	326	4.19
1 2 3	3 3 3	110	386	4.19
3	3	114	398	4.18
Avg. (2 & 3 Only)		112	392	
1	4	136	565	4.84
1 2 3	4	165	709	4.84
3	4	176	761	4.86
Avg. (2 & 3 Only)		170	735	
1	5	170	828	5.43
1 2 3	5	233	1208	5.43
3	5 5	271	1387	5.42
Avg. (2 & 3 Only)		252	1298	