



CLIENT:	International Mulch	REPORT NUMBER:	40167
	1 Mulch Lane	LAB TEST NUMBER:	1891-1982-1
	Bridgeton, MO 63044	DATE:	January 30, 2008

<u>Test Material</u> The following sample was submitted by the Client as: 2" **Rubber Mat**

<u>Sub Base:</u> Concrete

Date of Receipt: January 10, 2008

<u>Testing Period:</u> January 21, 2008

<u>Authorization:</u> Tim Miller

<u>Test Requested:</u> The submitted sample was evaluated for Shock Absorbing Properties in

Accordance with the procedures outlined in ASTM F 1292-04, Standard

Specification for Impact Attenuation of Surface Systems Under and Around

Playground Equipment.

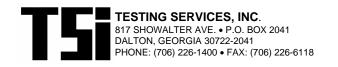
<u>Test Results:</u> Continued on the following pages ...

Prepared and signed by:

Erle Miles, Jr. VP

Testing Services Inc.

Page 1 of 3





Report #: 40167

Date: January 30, 2008

Page: 2 of 3

Client: International Mulch

1 Mulch Lane

Bridgeton, MO 63044

Results:

Sample: 2" Rubber Mat over concrete

Tested Dimension: 18" X 18" x 2"

Test Procedure: ASTM F 1292-04

<u>Impact Location:</u> Center of Sample

Missile: ANSI C Hemispherical Headform in Crown Position

Total Drop Assembly Weight 4.6kg (10 lbs)

<u>Test Equipment:</u> Triax 2000 Surface Impactor

Date of Last Calibration: 4/25/06 by Alpha Automation

Sample Pre-Condition: 50±10% RH, 72F±5F for a minimum of 24 hrs prior to testing

Maximum Drop Height That Gives a G_{max} of 200 or Less and a HIC of 1000 or less

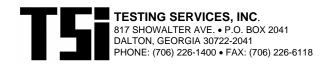
<u>Temperature:</u> <u>G_{max} of 200 or Less and a HIC of 1000 or 100</u>

Ambient, 72°F (23°C) 4'

Hot, 120°F (49°C) Not Tested

Cold, 25°F (-3.89°C) Not Tested

Critical Fall Height (CFH): 4'





Report #: 40167

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Page: 3 of 3

Client: International Mulch

1 Mulch Lane

Bridgeton, MO 63044

Results:

<u>Temperature:</u> 72°F 23°C Sample Condition: Dry

Drop #	Velocity ft/sec	Angle	Drop Ht. / Actual	Drop Ht. / Theoretical	G _{max}	HIC
1	14.4	4	3′	3.22'	106	403
2	14.5	3	3′	3.27'	112	460
3	14.5	7	3′	3.27'	111	436
Average			Drops 2,3		112	448

Drop #	Velocity ft/sec	Angle	Drop Ht. / Actual	Drop Ht. / Theoretical	G_{max}	HIC
1	16.6	8	4′	4.28′	141	708
2	16.7	6	4′	4.33'	141	725
3	16.7	8	4′	4.33'	136	669
Average			Drops 2,3		139	697

Drop #	Velocity ft/sec	Angle	Drop Ht. / Actual	Drop Ht. / Theoretical	G _{max}	HIC
1	18.3	3	5′	5.20′	171	1059
2	18.3	2	5′	5.20′	168	1040
3	18.4	1	5′	5.26′	169	1042
Average			Drops 2,3		169	1041

**** End of Report ****