



CLIENT:	Rubber Resources	REPORT NUMBER:	44953
	9901 Ideal Lane	LAB TEST NUMBER:	2059-7603
	Hudson, FL 34667	DATE:	June 4, 2009

Test Material The following sample was submitted by the Client as: **Everlast Kids @ 4" Depth**

Sub Base: Concrete

Date of Receipt: May 22, 2009

Testing Period: June 1-3, 2009

Authorization: Dale Hawker

Test Requested: 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.*

Test Results: Continued on the following pages ...

Prepared and signed by:

 Erle Miles, Jr. VP
 Testing Services Inc



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Client: Rubber Resources
 9901 Ideal Lane
 Hudson, FL 34667

Results:

Sample: Everlast Kids Mulch at 4" Depth
Tested Dimension: 18" X 18" X 4" (Compacted Depth)
Test Procedure: ASTM F 1292-04
Impact Location: Center of Compacted Mulch
Missile: ANSI C Hemispherical Headform in Crown Position
 Total Drop Assembly Weight 4.6kg (10 lbs)
Test Equipment: Triax 2000 Surface Impactor
 Date of Last Calibration: 2/19/09 by Alpha Automation
Sample Pre-Condition: 50±10% RH, 72F±5F for a minimum of 24 hrs prior to testing
 Compacted 1,004 ± 32 lbs for 1 minute (18" X 18") Container

<u>Temperature:</u>	<u>Maximum Drop Height That Gives a G_{max} of 200 or Less and a HIC of 1000 or less</u>
Ambient, 72°F (23°C)	11'
Hot, 120°F (49°C)	11'
Cold, 25°F (-6°C)	11'
Critical Fall Height (CFH):	11'

Reference G_{max} Curves Included



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Results

Temperature: 72°F (23°C)

Sample Condition: Dry

Drop #	Velocity ft/sec	Angle °	Drop Ht. / Actual	Drop Ht. / Theoretical	Gmax	HIC
1	25.3	5	10'	9.95'	145	938
2	25.3	6	10'	9.95'	144	879
3	25.3	5	10'	9.95'	154	1022
Average			Drops 2,3		149	951

Drop #	Velocity ft/sec	Angle °	Drop Ht. / Actual	Drop Ht. / Theoretical	Gmax	HIC
1	26.5	6	11'	10.91'	138	916
2	26.6	5	11'	11.00'	144	920
3	26.6	4	11'	11.00'	154	1034
Average			Drops 2,3		149	977

Drop #	Velocity ft/sec	Angle °	Drop Ht. / Actual	Drop Ht. / Theoretical	Gmax	HIC
1	27.7	5	12'	11.92'	169	1247
2	27.7	4	12'	11.92'	172	1229
3	27.7	7	12'	11.92'	183	1371
Average			Drops 2,3		178	1300



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Results

Temperature: 120°F (49°C)

Sample Condition: Dry

Drop #	Velocity ft/sec	Angle°	Drop Ht. / Actual	Drop Ht. / Theoretical	Gmax	HIC
1	25.3	1	10'	9.95'	143	881
2	25.3	2	10'	9.95'	149	951
3	25.3	4	10'	9.95'	141	894
Average			Drops 2,3		145	923

Drop #	Velocity ft/sec	Angle°	Drop Ht. / Actual	Drop Ht. / Theoretical	Gmax	HIC
1	26.6	1	11'	11.00'	145	941
2	26.6	1	11'	11.00'	155	1010
3	26.6	4	11'	11.00'	150	930
Average			Drops 2,3		153	970

Drop #	Velocity ft/sec	Angle°	Drop Ht. / Actual	Drop Ht. / Theoretical	Gmax	HIC
1	27.7	5	12'	11.92'	176	1317
2	27.7	4	12'	11.92'	169	1204
3	27.7	6	12'	11.92'	167	1199
Average			Drops 2,3		168	1202



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Temperature: 25°F (-6°C)

Sample Condition: Frozen

Drop #	Velocity ft/sec	Angle°	Drop Ht. / Actual	Drop Ht. / Theoretical	Gmax	HIC
1	25.4	2	10'	10.03'	140	832
2	25.3	0	10'	9.95'	134	794
3	25.3	0	10'	9.95'	134	782
Average			Drops 2,3		134	788

Drop #	Velocity ft/sec	Angle°	Drop Ht. / Actual	Drop Ht. / Theoretical	Gmax	HIC
1	26.7	7	11'	11.08'	152	1056
2	26.6	4	11'	11.00'	140	912
3	26.6	0	11'	11.00'	151	982
Average			Drops 2,3		146	947

Drop #	Velocity ft/sec	Angle°	Drop Ht. / Actual	Drop Ht. / Theoretical	Gmax	HIC
1	27.8	4	12'	12.01'	164	1147
2	27.7	3	12'	11.92'	161	1124
3	27.7	7	12'	11.92'	170	1267
Average			Drops 2,3		166	1196

END OF REPORT