



<b>CLIENT:</b>	Recycled Rubber Products LLC	<b>REPORT NUMBER:</b>	38949B
	175 South Des Plaines Street	<b>LAB TEST NUMBER:</b>	1885-1766
	Joliet, IL 60436	<b>DATE:</b>	January 8, 2008

**Test Material**                    The following sample was submitted by the Client as:  
**Play-Safe ¾" Rubber Chip with Fiber at 6" Depth**

**Sub Base:**                        Concrete

**Date of Receipt:**                December 17, 2007

**Testing Period:**                 January 4-8, 2007

**Authorization:**                 Sarah Baker

**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 ...



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175 South Des Plaines Street  
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Results:

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Sample: Play-Safe 3/4" Rubber Chip with Fiber  
Tested Dimension: 18" X 18" X 5.25" (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: 4/25/06 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<sub>max</sub> of 200 or Less and a HIC of 1000 or less</u>
Ambient, 72°F (23°C)	14'
Hot, 120°F (49°C)	14'
Cold, 25°F (-6°C)	13'
<b>Critical Fall Height (CFH):</b>	<b>13'</b>

Reference G<sub>max</sub> Curves Included



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Results

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Temperature: 72°F (23°C)

Sample Condition: Dry

Drop #	Velocity ft/sec	Angle°	Drop Ht. / Actual	Drop Ht. / Theoretical	Gmax	HIC
1	29.2	7	13'	13.25'	132	973
2	29.1	8	13'	13.16'	127	880
3	29.2	6	13'	13.25'	131	945
<b>Average</b>			<b>Drops 2,3</b>		<b>129</b>	<b>913</b>

Drop #	Velocity ft/sec	Angle°	Drop Ht. / Actual	Drop Ht. / Theoretical	Gmax	HIC
1	30.2	6	14'	14.17'	114	763
2	30.2	10	14'	14.17'	116	734
3	30.2	10	14'	14.17'	124	830
<b>Average</b>			<b>Drops 2,3</b>		<b>120</b>	<b>782</b>

Drop #	Velocity ft/sec	Angle°	Drop Ht. / Actual	Drop Ht. / Theoretical	Gmax	HIC
1	31.1	6	15'	15.03'	138	980
2	31.2	7	15'	15.13'	143	1096
3	31.2	10	15'	15.13'	142	1132
<b>Average</b>			<b>Drops 2,3</b>		<b>143</b>	<b>1114</b>



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Temperature: 120°F (49°C)

Sample Condition: Dry

Drop #	Velocity ft/sec	Angle°	Drop Ht. / Actual	Drop Ht. / Theoretical	Gmax	HIC
1	29.2	3	13'	13.25'	97	552
2	29.1	4	13'	13.16'	118	796
3	29.1	4	13'	13.16'	112	701
<b>Average</b>			<b>Drops 2,3</b>		<b>115</b>	<b>749</b>

Drop #	Velocity ft/sec	Angle°	Drop Ht. / Actual	Drop Ht. / Theoretical	Gmax	HIC
1	30.2	8	14'	14.17'	123	857
2	30.2	8	14'	14.17'	115	743
3	30.2	2	14'	14.17'	116	753
<b>Average</b>			<b>Drops 2,3</b>		<b>116</b>	<b>748</b>

Drop #	Velocity ft/sec	Angle°	Drop Ht. / Actual	Drop Ht. / Theoretical	Gmax	HIC
1	31.1	5	15'	15.03'	129	916
2	31.2	0	15'	15.13'	134	990
3	31.2	3	15'	15.13'	142	1086
<b>Average</b>			<b>Drops 2,3</b>		<b>138</b>	<b>1038</b>



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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	28.1	4	12'	12.27'	131	887
2	28.0	5	12'	12.18'	128	860
3	28.1	0	12'	12.27'	131	908
<b>Average</b>			<b>Drops 2,3</b>		<b>130</b>	<b>884</b>

Drop #	Velocity ft/sec	Angle°	Drop Ht. / Actual	Drop Ht. / Theoretical	Gmax	HIC
1	29.2	7	13'	13.25'	120	766
2	29.2	1	13'	13.25'	132	943
3	29.2	9	13'	13.25'	127	817
<b>Average</b>			<b>Drops 2,3</b>		<b>130</b>	<b>880</b>

Drop #	Velocity ft/sec	Angle°	Drop Ht. / Actual	Drop Ht. / Theoretical	Gmax	HIC
1	30.2	7	14'	14.17'	149	1211
2	30.2	8	14'	14.17'	143	1128
3	30.2	2	14'	14.17'	157	1264
<b>Average</b>			<b>Drops 2,3</b>		<b>150</b>	<b>1196</b>

END OF REPORT