

Name: Regal Plastics Supply
 Address: 2356 Merrell Rd., Dallas, TX. 75229
 Phone: Phone: 800-441-1553

Report Date: May 26, 2011
 Contact: Ed Rowland
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Ballistic Results

Project Summary

Type of Products to be tested: 1-1/4" Plastic BR product
 Test Specimen Sample size(s): 12 inch x 12 inch
 Number of test specimens: 9 Samples
 Weight of all samples: 7.5 pounds per sq. ft.
 Are Materials a Health Hazard: No
 Need the Tests performed by: 7 - 10 days
 Need products shipped back: No
 Sales Order Number: 1557206

International Ballistic Standards / Specifications Testing

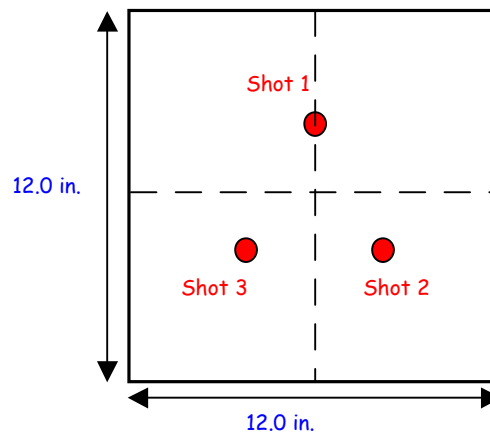
ASTM Brunswick FRA NIJ CFR Pass All
 Australian Canadian Germ DIN State Dept CFR SYA
 British EN 1063 MIL-SAMIT UL 752 Other
 Test Standard: Underwriters Laboratory UL752
 Particular Test: UL Level 3 Part 1 (.44 Magnum SWC)
 Velocity Range: 1,350 to 1,485 ft/s
 Number of Shots: 3 shots
 Spacing / Pattern: 4.0 inch triangle

Test Results

Product Number: Sample 7-SQ-05-11-2011-3384 Regalgard
 Sample Type: 1-1/4" Plastic BR product
 Sample Size: 12.0 in. x 12.0 in.
 Thickness: 1.235 inch
 Weight: 7.84 lbs
 Weapon Type: .44 Magnum
 Cartridge / Projectile Type: .44 Magnum SWC
 Projectile Weight: 240 grains
 Target Distance: 15 feet
 Number of Shots: 3 shots
 Shot Sequence:

	Shot 1	Shot 2	Shot 3
Impact Velocity (ft/sec) *:	1,409	1,381	1,411
Impact Energy (ft-lbs):	1,058	1,016	1,061
Impact Momentum (lb-sec):	1.50	1.47	1.50
Impact Spacing (inches) **:	3.80	4.10	3.65
Impact Angle (degrees):	0 °	0 °	0 °
Penetration Effect:	NP	NP	NP

Impact Spacing / Pattern: 3.85 inch (average)
 Witness plate material: 0.125 in. thick corrugated cardboard
 Spall catch box: Not required
 Witness / Box Distance: 18 inches
 Spall Occurrence: None
 Test Temperature: 73 ° F
 Test Date: May 26, 2011
 Pass / Fail Results: Passed the Test



Footnotes

* Velocity measurements were taken at a distance of 6 feet from muzzle. NP = No Penetration
 ** Impact Spacing is the distance between shots (shot 1= 3 to 1, shot 2 = 1 to 2, shot 3 = 2 to 3). CP = Complete Penetration

Test and Report Engineers

Tested and Reported by: Sam Raheb

Signature: Sam Raheb

Date: May 26, 2011

Name: [Regal Plastics Supply](#)

Report Date: [May 26, 2011](#)

Ballistic Test Results and Photographs

Ballistic Test Results:

The test sample passed the Underwriters Laboratory UL752 Level 3 Part 1 (.44 Magnum SWC) Ballistic test.

Projectile Penetration Effects:

There was no partial or complete projectile penetration of the sample for all 3 shots. However, the face ply cracked and completely delaminated from the sample. The rear face ply cracked and partially delaminated from the sample.

Witness Plate and Spall Effects:

No spall or damage to the 0.125 in. thick corrugated cardboard witness plate was observed.

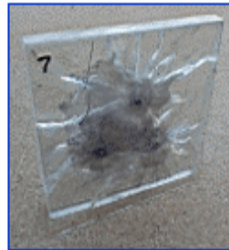
Photographs

The following photographs show both the pre and post-test sample. [Additional larger sized photographs are included with this report.](#)

Sample 7 - UL 752 Level 3 Part 1 (.44 Magnum SWC) - 12.0 x 12.0 x 1.235 inch



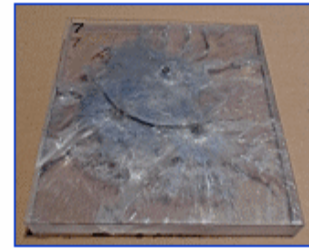
Sample 7 Pretest Impact Side



Sample 7 Post Test Impact Side



Sample 7 Post Test Rear Side



Sample 7 Post Test Impact Side



Sample 7 Post Test Rear Side

Test and Report Engineers

Tested and Reported by: Sam Raheb

Signature: *Sam Raheb*

Date: [May 26, 2011](#)