

Name: **Regal Plastic Supply Company**  
 Address: **2356 Merrell Road, Dallas, TX , 75229**  
 Phone: **Phone: 800-441-1553**

Report Date: **November 13, 2008**  
 Contact: **Bob Gray**  
 Email: [rgray@regal-plastics.com](mailto:rgray@regal-plastics.com)

**Ballistic Results**

**Project Summary**

Type of Products to be tested: **Poly / Acrylic BR Material**  
 Test Specimen Sample size(s): **12 x 12 inch**  
 Number of test specimens: **6 Sample(s)**  
 Weight of all samples: **29 lbs**  
 Are Materials a Health Hazard: **No**  
 Need the Tests performed by: **November 19, 2008**  
 Need products shipped back: **Yes**  
 Purchase Order Number: **N/A**

**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: **UL 752**  
 Particular Test: **UL Level 2 Part 1 (.357 Magnum JSP)**  
 Velocity Range: **1,250 to 1,375 ft/s**  
 Number of Shots: **3 shots**  
 Spacing / Pattern: **within a 4.5 inch triangle**

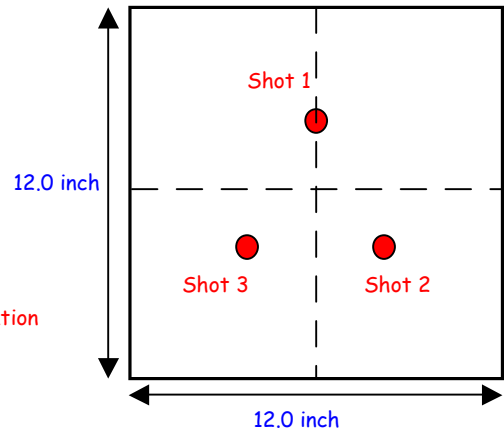
**Test Results**

Product Number: **Sample 4**  
 Sample Type: **Poly / Acrylic BR Material**  
 Sample Size: **12.0 x 12.0 inch**  
 Thickness: **0.787 inch**  
 Weight: **4.78 lbs**  
 Weapon Type: **.357 Magnum**  
 Cartridge / Projectile Type: **.357 Magnum JSP**  
 Projectile Weight: **158 gr**  
 Target Distance: **15 ft**  
 Number of Shots: **3 shots**

Shot Sequence:	Shot 1	Shot 2	Shot 3
Impact Velocity (ft/sec) *:	1,307	1,253	1,268
Impact Energy (ft-lbs):	599	551	564
Impact Momentum (lb-sec):	0.92	0.88	0.89
Impact Spacing (inches) **::	4.2	3.8	5.5
Impact Angle (degrees):	0 °	0 °	0 °
Penetration Effect:	NP	NP	NP
Bulge Height (inches) ***:	~0.2	~0.2	~0.2

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 Impact Energy (ft-lbs): **599 551 564**  
 Impact Momentum (lb-sec): **0.92 0.88 0.89**  
 Impact Spacing (inches) \*\*: **4.2 3.8 5.5**  
 Impact Angle (degrees): **0 ° 0 ° 0 °**  
 Penetration Effect: **NP NP NP**  
 Bulge Height (inches) \*\*\*: **~0.2 ~0.2 ~0.2**  
 Impact Spacing / Pattern: **4.50 inch (average)**  
 Witness plate material: **0.125 in. thick corrugated cardboard**  
 Witness Plate Distance: **18 inches**  
 Spall Occurrence: **None**  
 Test Temperature: **73 °F**  
 Test Date: **November 13, 2008**  
 Comments: **Passed the test**

NP = No Penetration  
 CP = Complete Penetration



**Ballistic Test Results:**

The Poly / Acrylic BR Material test sample passed the UL Level 2 Part 1 (.357 Magnum JSP) Ballistic test. However the sample completely delaminated upon removal from the test fixture.

**Projectile Penetration Effects:**

There was no partial or complete projectile penetration of the Poly / Acrylic BR Material sample for all 3 shots.

**Witness Plate and Spall Effects:**

No spall was observed and no damage occurred to the witness plate.

**Comments and Test Descriptions**

- \* Velocity measurements were taken at a distance of 6.6 ft from muzzle
- \*\* Impact Spacing is the distance between shots. ( shot 1= 3 to 1, shot 2 = 1 to 2, shot 3 = 2 to 3)
- \*\*\* The post impact Bulge Height is the distance between the apex of the extruded deformation bulge to the tangent plane of the flat surface. This measurement is taken from the side opposite to the impacts.

**Test and Report Engineers**

Tested and Reported by: **Sam Raheb**

Signature: *Sam Raheb*

Date: **November 13, 2008**