

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

**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 3 (.357 Magnum JSP)**  
 Velocity Range: **1,250 to 1,375 ft/s**  
 Number of Shots: **1 shot**  
 Spacing / Pattern: **1 to 1.50 in. unsupported edge shot**

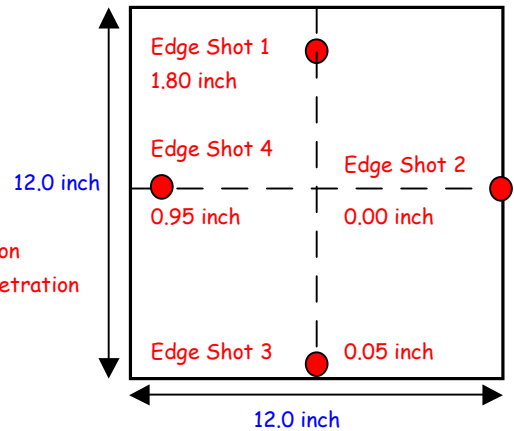
**Test Results**

Product Number: **Sample 6**  
 Sample Type: **Poly / Acrylic BR Material**  
 Sample Size: **12.0 x 12.0 inch**  
 Thickness: **0.784 inch**  
 Weight: **4.86 lbs**  
 Weapon Type: **.357 Magnum**  
 Cartridge / Projectile Type: **.357 Magnum JSP**  
 Projectile Weight: **158 gr**  
 Target Distance: **15 ft**  
 Number of Shots: **1 shot**  
 Shot Sequence: 

Shot 1	Shot 2	Shot 3	Shot 4	
Impact Velocity (ft/sec) *:	1,318	1,324	1,289	1,252
Impact Energy (ft-lbs):	609	615	583	550
Impact Momentum (lb-sec):	0.92	0.93	0.90	0.88
Impact Angle (degrees):	0 °	0 °	0 °	0 °
Penetration Effect:	NP	NP	NP	NP
Bulge Height (inches) **:	~0.1	~0.1	~0.1	~0.1

 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 3 (.357 Magnum JSP) Ballistic test. However the sample partially delaminated after shot 1. For design performance data purposes, 3 extra shots were taken.

**Projectile Penetration Effects:**

There was no partial or complete projectile penetration of the Poly / Acrylic BR Material sample for the single shot test.

**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
- \*\* 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**

