

# BALLISTIC RESISTANCE TEST

## Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Infinity Composites, Inc.

Job No.: CD01-2014-R06BRT-83722

Test Date: 7/11/2014

### Test Panel

Description: Rigid armor panel. 1.02 psf.

Manufacturer: Infinity Composites, Inc.

Sample No.: 44 Mag (11 Ply)

Size: 15.00 x 15.00 in  
Thickness: 0.183 in; 0.183 in;  
0.183 in; 0.182 in  
Avg. Thick: 0.183 in

Heat No.: NA  
Weight: 1.79 lbs  
Hardness: NA  
Plies/Laminates: 11

Date Received: 7/10/2014  
Via: UPS  
Returned: UPS

### Setup

Shot Spacing: NIJ-STD-0108.01 Level IIIA  
Witness Panel: 0.02 in 2024-T3 Al  
Obliquity: 0.0°  
Backing Material: NA  
Condition: Ambient

Primary Vel. Screens (ft): 6.500, 9.500  
Primary Vel. Location (ft): 8.000  
Range to Target (ft): 16.400  
Target to Witness (in): 6.000

Range No.: 6  
Temp: 70.5 °F  
BP: 30 inHg  
RH: 49.7%  
Barrel/Gun: CT-3053  
Gunner: Joey Scott  
Recorder: S. McDowell

### Ammunition

| Projectile                    | Lot No.         | Powder         |
|-------------------------------|-----------------|----------------|
| (1) .44-mag., 240-grain SWCGC | Remington 22885 | Accurate No. 5 |

### Applicable Standards or Procedures

- (1) NIJ-STD-0108.01 Level IIIA
- (2) Per customer request

| Shot No. | Ammo | Time 1 (µs) | Vel. 1 (ft/s) | Time 2 (µs) | Vel. 2 (ft/s) | Avg. Vel. (ft/s) | Penetration | Deformation (mm) | Footnotes |
|----------|------|-------------|---------------|-------------|---------------|------------------|-------------|------------------|-----------|
| 1        | 1    | 2015        | 1489          | 2020        | 1485          | 1487             | None        |                  |           |
| 2        | 1    | 2137        | 1404          | 2142        | 1401          | 1402             | None        |                  |           |
| 3        | 1    | 2148        | 1397          | 2153        | 1393          | 1395             | None        |                  |           |
| 4        | 1    | 2121        | 1414          | 2126        | 1411          | 1413             | None        |                  |           |
| 5        | 1    | 2129        | 1409          | 2134        | 1406          | 1407             | None        |                  |           |

#### Remarks:

Required Velocity: 1400 +/- 50 ft/s  
Sample tested in a frame

#### Footnotes: