

# BALLISTIC RESISTANCE TEST

## Chesapeake Testing

121 Bata Boulevard, Suite F  
Belcamp, MD 21017

Client: Hardwire, LLC

Job No.: X084-001-1

Test Date: 2/6/2009

## Test Panel

Description: Dyneema; 5 lb/ft<sup>3</sup>, 2400 lb/in<sup>2</sup>

Manufacturer: Hardwire, LLC

Sample No.: CDS-1

Size: 12.00 x 12.00 in  
Thickness: 0.99 in, 0.99 in  
0.99 in, 0.99 in  
Avg. Thick: 0.99 in

Heat No.: NA  
Weight: 5.12 lbs  
Hardness: NA  
Plies/Laminates: NA

Date Received: 2/6/2009  
Via: FedEx  
Returned: FedEx

## Setup

Shot Spacing: 3 shots on 120 mm triangle  
Witness Panel: 0.02 in 2024-T3 Al  
Obliquity: 0°  
Backing Material: NA  
Condition: -20 °F for 3.0 hours

Primary Vel. Screens: 10 ft, 20 ft  
Primary Vel. Location: 15 ft  
Range to Target: 25 ft  
Target to Witness: 6 in

Range No.: 2  
Temp: 69 °F  
BP: 30.33 inHg  
RH: 27%  
Barrel/Gun: CDS-0207  
Gunner: Craig Thomas  
Recorder: Carty Ingram

## Ammunition

Projectile	Lot No.	Powder
(1) 7.62 x 39-mm, 123-grain MSC	Military Unknown	IMR 4227

## Applicable Standards or Procedures

(1) 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	Footnotes
1	1	4031	2481	4030	2481	2481	None	
2	1	4046	2472	4045	2472	2472	None	
3	1	4048	2470	4047	2471	2471	None	

### Remarks:

Requested velocity: 2400 to 2500 ft/s

### Footnotes: