

BALLISTIC RESISTANCE TEST

Chesapeake Testing an NTS Company

4603B Compass Point Road
Belcamp, MD 21017

Client: Diamond Age Technologies
Job No.: CD01-2018-R04BRT-135172
Test Date: 3/13/2018

Test Panel Description: Ballistic helmet with applique.

Manufacturer: Diamond Age Technologies

Sample No.: Helmet Appliques (M855-A1)

Size: See remarks
Avg. Thick: NA
Thickness: See remarks

Weight: See remarks
Plies/Laminates: NA

Date Received: 3/8/2018
Via: DHL
Returned: DHL

Setup

Shot Spacing: Customer request
Witness Panel: Clay
Backing Material: Clay-filled head form
Condition: Ambient

Primary Vel. Screens (ft): 10.000, 10.333, 19.667, 20.000
Primary Vel. Location (ft): 15.000
Range to Target (ft): 25.000
Target to Witness (in): 0.000

Range No.: 4
Temp: 68.0 °F
BP: 29.6 inHg
RH: 33.4%
Barrel/Gun: Test Barrels
Gunner: Josh Petty
Recorder: Jacob Arisman

Ammunition

Projectile	Lot No.	Powder
(1) 5.56 x 45 M855-A1	Military Russian	N 110 N 110

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 9:55 AM; Block No. HB-3; Temp: 98.8 °F, 97.7 °F; Drop Depths: 23.3mm, 23.7mm, 22.9mm
(1) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Striking Vel. (ft/s)	Penetration	Def. (mm)	Obliq. (°)	Footnotes
1	1	18.8	3280	3049	3065	3045	3047	3037	None	7.5	0.0	(a)

Remarks:
M855A1 requested velocity: 3100 ft/s
Head form: HB3-1; Temp: 97.5 °F
Helmet: Size: XL, Weight: 2.37 lbs., Thicknesses: 0.334, 0.337, 0.335, 0.340 in.
Back applique: Size: XL, Weight: 0.78 lbs., Thicknesses: 0.304, 0.303, 0.319, 0.320 in.

Footnotes:
(a) Back applique.