

BALLISTIC RESISTANCE TEST

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Ganex Limited
Project No.: PR151401-1
Test Date: 12/09/2023 - 12/10/2023
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Test Panel | Description: Helmet.

Manufacturer: Ganex Limited

Sample No.: (9mm, V0- ACH On Clay) 1

Size: Medium
Avg. Thickness: 0.319 in
Thicknesses: 0.331 in, 0.332 in,
0.310 in, 0.303 in

Weight: 2.340 lbs
Plies/Laminates: N/A

Date Received: 12/06/2023
Received Via: FedEx
Returned Via: UPS Ground

Setup

Shot Spacing: AR/PD 10-02 REV A
Change 7, dated 16
Oct 2014
Witness Panel: Clay
Backing Material: NIJ Head Form
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,
9.666, 10.000
Primary Vel. Location (ft): 7.500
Range to Target (ft): 15.000
Target to Witness (in): 0.000

Range No.: Range 5
Temp: 67.9 °F
BP: 30.2 inHg
RH: 40.6 %
Barrel/Gun: WC024524
Gunner: Gregory Bonilla
Recorder: Joseph Gerdes

Ammunition

Projectile

Lot No.

Powder

(1) 9-mm, 124-grain FMJ

Remington 23558

Accurate No. 2

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 2:15 PM; Block No. WC074960; Temp: 91.0 °F, 91.0 °F; Drop Depths: 25.0 mm, 26.2 mm, 25.7 mm
(1) AR/PD 10-02 REV A Change 7, dated 16 Oct 2014 (Modified)
(2) Customer Request

Shot No.	Ammo	Powder/ Seating	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	Deformation (mm)	Obliq. (°)	Footnotes
1	1	5.7	125.1	3492	1432	3028	1431	1431	1421	None	6.4	0.0	(a)
2	1	5.7	125.1	3497	1430	3033	1429	1429	1419	None	8.9	0.0	(b)
3	1	5.7	125.1	3492	1432	3028	1431	1431	1421	None	3.2	0.0	(c)
4	1	5.7	125.1	3463	1444	3004	1442	1443	1433	None	12.5	0.0	(d)
5	1	5.7	125.2	3500	1429	3033	1429	1429	1418	None	16.7	0.0	(e)

Remarks:

Required velocity: 1400 + 50 ft/s.
Head form No.: HB5-1 Head form temp.: 92.6 °F.
Projectile yaw check: 00 yaw on all impacts.

Footnotes:

- (a) Crown
- (b) Front
- (c) Back
- (d) Right
- (e) Left

BALLISTIC RESISTANCE TEST

NTS-Belcamp

 4603B Compass Point Road
 Belcamp, MD 21017

 Client: Ganex Limited
 Project No.: PH00062342
 Test Date: 02/20/2024
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Test Panel | Description: Ballistic helmet with pads and retention system

Manufacturer: Ganex Limited

Sample No.: (Multi Threat, V0) Helmet #1

 Size: Large
 Avg. Thickness: 0.306 in
 Thicknesses: 0.311 in, 0.311 in,
 0.304 in, 0.299 in

 Weight: 2.450 lbs
 Plies/Laminates: N/A

 Date Received: 02/13/2024
 Received Via: UPS Ground
 Returned Via: UPS Ground

Setup

 Shot Spacing: AR/PD 10-02
 Witness Panel: Clay
 Backing Material: Clay-filled NIJ-
 0106.01 head form
 Condition: Ambient

 Primary Vel. Screens (ft): 5.000, 5.333,
 9.666, 10.000
 Primary Vel. Location (ft): 7.500
 Range to Target (ft): 15.000
 Target to Witness (in): 0.000

 Range No.: Range 4
 Temp: 68.8 °F
 BP: 30.1 inHg
 RH: 47 %
 Barrel/Gun: WC024521
 Gunner: Bernard Carr
 Recorder: Joshua Petty

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .45 AUTO, 230-grain FMJ	NA	Federal	Accurate No. 2
(2) .40 S&W, 155-grain FMJ	NA	Federal	Accurate No. 2

Applicable Standards or Procedures

 Clay Drop 1 - Drop Time: 11:30 AM; Block No. WC074958; Temp: 96.2 °F, 96.4 °F; Drop Depths: 24.1 mm, 24.7 mm, 24 mm
 (1) AR/PD 10-02 Rev A, Change 6 (Modified)
 (2) Customer Request

Shot No.	Ammo	Powder/Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Deformation (mm)	Obliq. (°)	Footnotes
1	1	5.5	230.8	5455	917	4728	916	917	None	16.5	0	(a)
2	1	5.3	230.6	5702	877	4940	877	877	None	14.4	0	(b)
3	2	4.4	155.8	5000	1000	4325	1002	1001	None	5.5	0	(c)
4	2	4.6	155.3	4796	1043	4156	1043	1043	None	16.6	0	(d)

Remarks:

 Required velocity shots 1-2: 830-860 ft/s.
 Required velocity shots 3-4: 985-1015 ft/s.
 Head form No.: HB2-1 Head form temp.: 96.8 °F.
 Projectile yaw check: 0 yaw on all impacts.

Footnotes:

 (a) Front
 (b) Left
 (c) Back
 (d) Right