PROTECTION BALLISTIC LIMIT TEST, V_{50} BL(P)

Element U.S. Space & Defense
4603B Compass Point Road
Belcamp, MD 21017

Client: Adept Incorporated
Project No.: PH00019520
Test Date: 07/08/2026

Test Panel

Description: Foam sample.

Manufacturer: Adept Incorporated

Sample No.: (17gr, V50) Bullet Foam - Pad #2

Size: 10.00 x 12.00 in
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 0.510 lbs
Plies/Laminates: N/A
Required BL(P): N/A

Date Received: 06/23/2026

Setup

Shot Spacing: MIL-STD-662F
Witness Panel: 0.02 in 2024-T3 Al
Backing Material: N/A
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): 6.000

Range No.: Range 2
Temp: 70.2 °F
BP: 30 inHg
RH: 48.6 %
Barrel/Gun: WC078550
Gunner: William Ellis
Recorder: Isaiah Lookingbill

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .22 cal, 17-grain FSP	17021925	Contra Threat Sciences	Bullseye

Applicable Standards or Procedures

(1) MIL-STD-662F
(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)	Result	Include in V_{50}	Obliq. (☒)	Footnotes
1	1	7.5	17	2392.0	2090	2075.0	2088	2089	2000	C	No	0	
2	1	6.5	17	2635.0	1898	2288.0	1894	1896	1815	C	No	0	
3	1	5.5	17	2913.0	1716	2531.0	1712	1714	1643	C	No	0	
4	1	4.5	17	3533.0	1415	3069.0	1412	1414	1357	P	Yes	0	
5	1	5.0	17	3143.0	1591	2730.0	1587	1589	1524	C	No	0	
6	1	4.7	17	3316.0	1508	2878.0	1506	1507	1446	C	No	0	
7	1	4.5	17	3325.0	1504	2887.0	1501	1502	1441	C	Yes	0	
8	1	4.3	17	3529.0	1417	3065.0	1414	1415	1359	P	Yes	0	
9	1	4.4	17	3394.0	1473	2947.0	1470	1472	1412	C	Yes	0	
10	1	4.3	17	3477.0	1438	3021.0	1434	1436	1379	C	Yes	0	
11	1	4.2	17	3525.0	1418	3060.0	1416	1417	1361	P	Yes	0	

Remarks:
Requested starting velocity: 2000 ft/s.
Projectile yaw check: 0° yaw on all Impacts.

Footnotes:
N/A

V_{50} Summary:
No. of Points: 3 and 3
V_{50}: 1385 ft/s
High Partial: 1361 ft/s
Low Complete: 1379 ft/s
Range of Results (ROR): 84 ft/s
Range of Mix Results (RMR): N/A
Gap: 18 ft/s

ADEPT INCORPORATED PROPRIETARY INFORMATION

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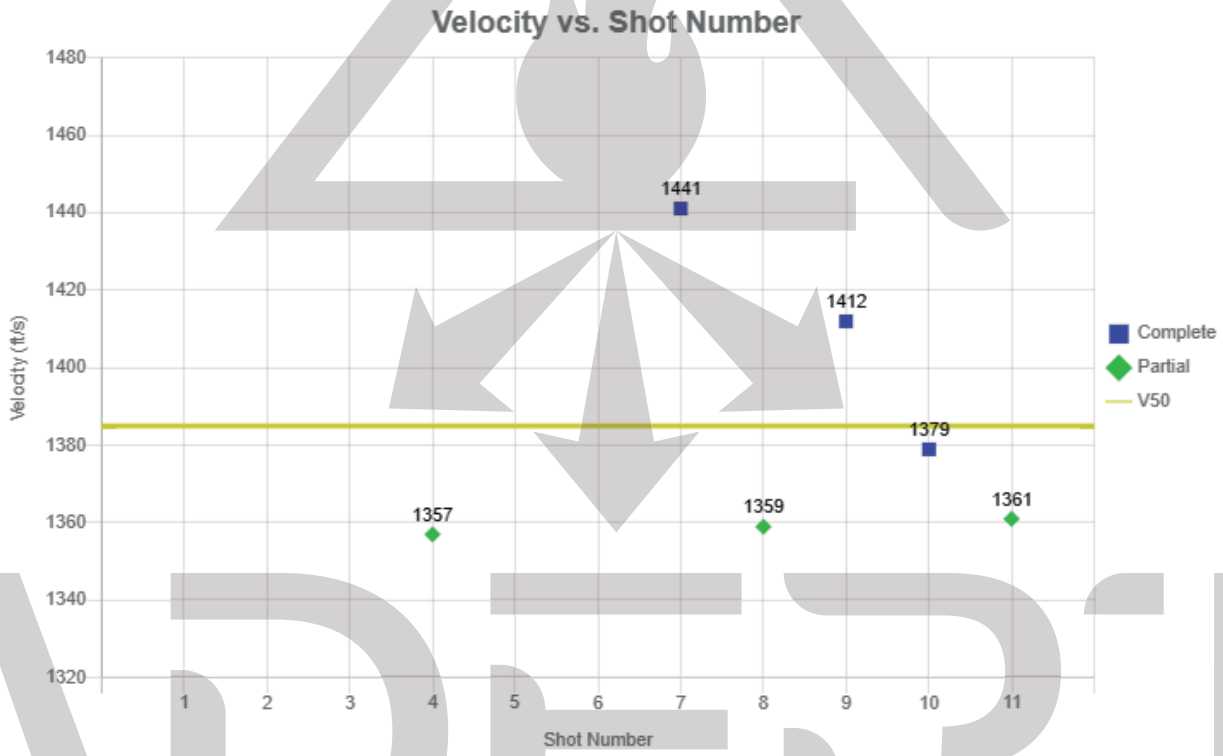

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