

BALLISTIC RESISTANCE TEST

Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: American Blast Systems

Job No.: 2538-008

Test Date: 11/24/2015

Test Panel

Description: Proprietary; Polyethylene plate tested in conjunction with Executive vest

Manufacturer: American Blast Systems

Sample No.: 1

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

Weight: See remarks
Plies/Laminates: NA

Date Received: 11/23/2015
Via: FedEx
Returned: FedEx

Setup

Shot Spacing: NIJ-STD-0101.06 Level III
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Ambient

Primary Vel. Screens (ft): 37.000, 37.333,
46.667, 47.000
Primary Vel. Location (ft): 42.000
Range to Target (ft): 50.200
Target to Witness (in): 0.000

Range No.: 3
Temp: 67.4 °F
BP: 30.2 inHg
RH: 35.7%
Barrel/Gun: CT-4006
Gunner: Fritz Boniface
Recorder: Keith Crouse

Ammunition

Projectile	Lot No.	Powder
(1) 7.62 x 51-mm, 149-grain M80 FMJ	Military	N133

Applicable Standards or Procedures

(1) NIJ-STD-0101.06 Level III (Modified)

Shot No.	Ammo	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	148.4	3601	2777	3359	2779	2778	None	36.3	0.0	(a)
2	1	147.6	3587	2788	3347	2789	2788	None	35.9	0.0	
3	1	147.9	3646	2743	3402	2743	2743	None	NA	0.0	
4	1	148.2	3608	2772	3366	2773	2772	None	NA	0.0	
5	1	148.0	3621	2762	3379	2762	2762	None	NA	0.0	
6	1	147.5	3584	2790	3344	2791	2791	None	NA	0.0	

Remarks:

Required velocity: 2780 ±30 ft/s
Plate size: X-Large; Plate weight: 1.64 lbs
Vest size: 12.00 x 9.75 in; Vest weight: 2.97 lbs

Footnotes:

(a) The projectile had an insufficient velocity.