

BALLISTIC RESISTANCE TEST

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Applied Fiber Concepts, Inc.

Project No.: PR154613

Test Date: 02/15/2022

Page 1 of 1

Test Panel Description: Shield. Test ID : AFC-PE3. Lot#: C0222.

Manufacturer: Applied Fiber Concepts, Inc

Sample No.: (M80, V0) 577609-M80

Size: 12.00 x 21.50 in
Avg. Thickness: 0.769 in
Thicknesses: 0.767 in, 0.768 in,
0.765 in, 0.775 in

Weight: 7.120 lbs
Plies/Laminates: N/A

Date Received: 02/15/2022
Received Via: UPS Ground
Returned Via: UPS Ground

Setup

Shot Spacing: NIJ-STD-0108.01
Level III
Witness Panel: 0.02 in 2024-T3 Al
Backing Material: N/A
Condition: Ambient

Primary Vel. Screens (ft): 6.500, 9.500
Primary Vel. Location (ft): 8.000
Range to Target (ft): 50.000
Target to Witness (in): 6.000

Range No.: Range 4
Temp: 68.3 °F
BP: 30.6 inHg
RH: 34 %
Barrel/Gun: N/A
Gunner: Bernard Carr
Recorder: Joshua Petty

Ammunition

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

Applicable Standards or Procedures

- (1) Customer Request
(2) NIJ-STD-0108.01 Level III (Modified)

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	Obliq. (°)	Footnotes
1	1	37.2	148.2	1095	2740	1097	2735	2737	2737	None	0	
2	1	37.2	148.3	1100	2727	1102	2722	2725	2725	None	0	
3	1	37.3	148.3	1097	2735	1097	2735	2735	2735	None	0	
4	1	37.4	148.3	1088	2757	1088	2757	2757	2757	None	0	
5	1	37.4	148.3	1085	2765	1085	2765	2765	2765	None	0	
6	1	37.4	148.3	1093	2745	1093	2745	2745	2745	None	30	

Remarks:

Required Velocity: 2700-2800 ft/s.
Projectile Yaw Check: 0° on all impacts

Footnotes:

N/A