

BALLISTIC RESISTANCE TEST

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Armor Industries, LLC
Job No.: 21393-001-2
Test Date: 7/31/2019

Test Panel

Description: Rigid armor

Manufacturer: Armor Industries, LLC

Sample No.: M80-1

Size: 15.00 x 15.00 x 11.25 in
Avg. Thick: NA
Thickness: NA

Weight: 28.64 lbs
Plies/Laminates: NA

Date Received: 7/26/2019
Via: UPS
Returned: UPS

Setup

Shot Spacing: NIJ-STD-0108.01 Level III
Witness Panel: 0.02 in 2024-T3 Al
Backing Material: NA
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.: 6
Temp: 71.4 °F
BP: 29.8 inHg
RH: 45.7%
Barrel/Gun: CT-3196
Gunner: Austin Blake
Recorder: Craig Thomas

Ammunition

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

Applicable Standards or Procedures

- (1) NIJ-STD-0108.01 Level III (Modified)
- (2) 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) | Penetration | Obliq. (°) | Footnotes |
|----------|------|-------------|-------------|---------------|-------------|---------------|------------------|-------------|------------|-----------|
| 1 | 1 | 147.0 | 1112 | 2698 | 1112 | 2698 | 2698 | None | 0.0 | (a) |
| 2 | 1 | 149.9 | 1093 | 2745 | 1090 | 2752 | 2749 | None | 0.0 | |
| 3 | 1 | 147.7 | 1110 | 2703 | 1110 | 2703 | 2703 | None | 0.0 | |
| 4 | 1 | 147.5 | 1105 | 2715 | 1102 | 2722 | 2719 | None | 0.0 | |
| 5 | 1 | 148.2 | 1068 | 2809 | 1068 | 2809 | 2809 | None | 0.0 | |
| 6 | 1 | 147.8 | 1090 | 2752 | 1088 | 2757 | 2755 | None | 0.0 | (b) |

Remarks:

Footnotes:

- (a) The projectile had insufficient velocity.
- (b) Extra shot taken to replace low velocity impact.