

Laboratory Test Report

Protection - Ballistic (V0)

Test Panel

Job No: Q-279-4
Sample No: D2677
Part No: TX18054
Lot No:

Manufacturer: Prime Armor LLC
Size: 12.5X9.5"
Weight (lbs): 4.149
Thickness (in):
Avg Thickness (in): .957 "

Test Date: 3/25/2023
Gunner: KRUISE
Recorder: SCOTT

Description: 3812-MD-SE-PY

Set-Up

Shot Spacing: 3 SHOTS 3" APART
Witness Panel: 4" Clay (1)Velocity Screens (in): 60" Temp (°F): 69.7
Obliquity (deg): 0 deg. (2)Velocity Screens (in): 48" BP (in Hg): 29.02
Backing Material: CLAY TEMPLATE Range to Target (ft): 25.0' Rel Humidity: 54%
Conditioning: AMBIENT Barrel : 7.62 X 51

Threat/Projectile Origin:

Powder:

- 1) 7.62 x 51 M80 147gr. FMJ
- 2)
- 3)
- 4)

- 1) IMR 4064
- 2)
- 3)
- 4)

Applicable Standards or Procedures:

Tested stand-alone on clay

Shot #	Powder (gr)	Ammo	Velocity 1 (ft/s)	Velocity 2 (ft/s)	Average Velocity (ft/s)	Result (P P/ CP)	Comments
1	43.0	0	2769	2762	2766	pp	BFD 40.55
2	43.1	0	2780	2774	2777	pp	BFD 37.33
3	43.1	0	2818	2808	2813	pp	N/A

Remarks:

MOLD #3 BALL DROP
21.75 20.56 20.73

Foot notes:

PLATE HEATED TO 122F (50C) Clay
Block #3 Cylinder drop: 25.71, 24.15,
27.41 mm

Laboratory Test Report

Protection - Ballistic (V0)

Test Panel

Job No: Q-279-9
 Sample No: D2677
 Part No: TX18054
 Lot No:

Manufacturer: Prime Armor LLC
 Size: 12.5X9.5"
 Weight (lbs): 4.149
 Thickness (in):
 Avg Thickness (in): .957 "

Test Date: 4/27/2023
 Gunner: KRUISE
 Recorder: SCOTT

Description: 3812-MD-SE-PY

Set-Up

Shot Spacing:	PER NIJ REQUIREMENTS	(1) Velocity Screens (in):	60"	Temp (°F):	69.5
Witness Panel:	4" Clay	(2) Velocity Screens (in):	48"	BP (in Hg):	29.00
Obliquity (deg):	0 deg	Range to Target (ft):	25.0'	Rel Humidity:	51%
Backing Material:	CLAY TEMPLATE	Barrel :	220 Swift 1-7		
Conditioning:	HOT				

Threat/Projectile Origin:

Powder:

- | | |
|---------------------------|------------------------|
| 1) 5.56 X 45, 62 gr. M855 | 1) Hodgdon Hybrid V100 |
| 2) | 2) |
| 3) | 3) |
| 4) | 4) |

Applicable Standards or Procedures:

Polish ballistic norm PN-V-87000:2011

Shot #	Powder (gr)	Ammo	Velocity 1 (ft/s)	Velocity 2 (ft/s)	Average Velocity (ft/s)	Result (P P/ CP)	Comments
1	34.2	62	3099	3089	3094	PP	BFD 24.51mm
2	34.2	62	3153	3143	3148	PP	BFD 29.20mm
3	34.2	62	3128	3117	3123	pp	N/A
4	34.2	62	3173	3163	3168	pp	N/A
5	34.1	62	3013	3003	3008	pp	N/A
6	34.2	62	3147	3137	3142	pp	N/A

Remarks:

Foot notes:

PLATE HEATED TO 122F (50C) Clay Block #3 Cylinder drop: 25.79, 24.95, 27.23 mm

Laboratory Test Report

Protection - Ballistic (V0)

Test Panel

Job No: Q-279-6
Sample No: D2677
Part No: TX18054
Lot No:

Manufacturer: Prime Armor LLC
Size: 12.5X9.5"
Weight (lbs): 4.149
Thickness (in):
Avg Thickness (in): .957 "

Test Date: 4/27/2023
Gunner: KRUISE
Recorder: SCOTT

Description: 3812-MD-SE-PY

Set-Up

Shot Spacing: PER NIJ REQUIREMENTS
Witness Panel: 4" Clay (1)Velocity Screens (in): 60" Temp (°F): 69.
Obliquity (deg): 0 deg. (2)Velocity Screens (in): 48" BP (in Hg): 29.01
Backing Material: CLAY TEMPLATE Range to Target (ft): 25.0' Rel Humidity: 41%
Conditioning: HOT Barrel : 7.62 X 39

Threat/Projectile Origin:

Powder:

- 1) 7.62 X 39, MSC, 123 gr.
- 2)
- 3)
- 4)

- 1) IMR 4227
- 2)
- 3)
- 4)

Applicable Standards or Procedures:

Shot #	Powder (gr)	Ammo	Velocity 1 (ft/s)	Velocity 2 (ft/s)	Average Velocity (ft/s)	Result (P P/ CP)	Comments
1	24.3	123	2413	2406	2410	pp	BFD 27.13MM
2	24.4	123	2447	2440	2444	pp	BFD 28.38MM
3	24.3	123	2424	2417	2421	pp	N/A

Remarks:

Foot notes:

PLATE HEATED TO 122F (50C) FRAME #1
BALL DROP 16.43,16.71,16.63