



Ballistic Resistance Test

SMS Testing

201 McNamee Ln.
Rising Sun, MD 21911

Client: Premier Body Armor
Job No.: 83-1356
Test Date: 9/10/2024

Test Panel

Description: Mid cut ballistic helmet with pads and retention system.

Manufacturer:	Premier Body Armor	Sample No.	Helmet (9mm, V0)
Size:	NA	Weight:	3.38
Thicknesses (in):	-	Plies:	-
Avg Thickness (in):	-		

Setup

Shot Spacing: NIJ 0106.01	Muzzle to Target (ft):	16.4	Range No. 2
Witness Panel: Clay	Target to Witness (in):	NA	Temp: 71.6 °F
Backing Material: NIJ 0106.01 Headform	VS Screen 1 (ft):	6.5	RH: 52%
Condition: Ambient	VS Screen 2 (ft):	9.5	Barrel/Gun: 9mm
	Midpoint to Target (ft):	8.4	Technician: Johnny
			Range Manager: Lance

Ammunition

Projectile	Lot No.	Powder
1 9mm NIJ 2 3	Remington	Accurate No. 2

Applicable Standards or Procedure

Clay

1 NIJ Standard 0106.01 (Mod)	Drops:	26.2, 24.9, 25.5 mm
2 NIJ Standard 0108.01 (Mod)	Temp:	96.3 °F
3 Per Customer Request	Block No:	H-1

Shot Table

Shot No.	Ammo	Weight (Gr)	Time 1 (sec)	Vel. 1 (ft/s)	Time 2 (sec)	Vel. 2 (ft/s)	Velocity Average (ft/s)	Velocity Striking (ft/s)	Penetration	BFD (mm)	Obliq.	Notes
1	1	6.4	0.004577	1420	0.002113	1420	1420	1420	P	7.8	0°	Front
2	1	6.4	0.004597	1414	0.002122	1414	1414	1414	P	8.5	0°	Back
3	1	6.4	0.004616	1408	0.002129	1409	1408.5	1409	P	10.1	0°	Right
4	1	6.4	0.004545	1430	0.002098	1430	1430	1430	P	9.4	0°	Left

Remarks

Remarks: Required velocity: 1400 ± 50 ft/s.