

**National Institute of Justice (NIJ)**

Approved Test Laboratory  
For Personal Body Armor

Expiration Date:  
April 30, 2022

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NVLAP LAB CODE: 200818-0  
Approved Signatory: Jake Crawford

**HARD ARMOR STAND-ALONE PLATE:**

Date Received: 07/5/2020  
Via: DHL  
Returned Via: DHL

**P-BFS TEST**

Record No.: VTG20001-3  
Test Date: 08/5/2020  
Customer: Merc Tactical Gear Co., Ltd.

**Test Conditions**

Temperature: 22.3 °C  
Humidity: 50 %  
Clay Block No.: 7  
Clay Block Size: 24" x 24" x 5.5"  
Clay Temp.: 36.8 °C  
Drop Average: 20.15 mm  
Test Standard: IAW Modified / Abbreviated NIJ 0101.06, July 2008  
Threat Level: Special Threat  
Conditioning: Ambient / Dry

**Range 3**

Muzzle to Screen 1: 11.98 m  
Screen 1 - 4: 1.52 m  
Screen 4 - Target: 1.74 m  
Midpoint to Target: 2.50 m  
Target to Witness: 0 m  
Barrel Length: 66.04 cm

Sample Tested	Shot / Projectile Description				Chronograph		Test Results	
	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sx-5	VELOCITY m/s	Perforation BFS (mm)
Manufacturer: VT Garment Co. Ltd	1	Top Left	0°	5.56x45mm	62 / M855	163.1	934.4	17.33
Lot: MS / 33	2	Top Right	0°			163.0	935.0	14.46
Size (cm): 25.5 x 30.5	3	Middle Right	0°			161.8	941.9	No Perforation
Curve / Cut: Multi-Curved / Shooter's Cut	4	Middle Left	0°			162.1	940.2	No Perforation
Weight (kg): 1.9325	5	Bottom Left	0°			160.6	948.9	No Perforation
Protection Level: (NIJ 0101.06): III+ Stand-Alone	6	Bottom Right	0°			163.9	929.8	No Perforation

**This test report may not be used to claim product certification, approval, or endorsement by NVLAP, NIST, NIJ or any agency of the Federal Government. This report contains data that are not covered by the NVLAP accreditation. This test was performed in accordance with the specification requirements listed in addition to any customer testing modifications or requests. The test results properly reflect the ballistic performance of the listed sample. This test report shall not be reproduced except in full without written approval of National Technical Systems.**

**Test Remarks/Notes:**  
•Plate tested non-planar (with clay build-up/mound)

**Test Round Description:**  
Test Round: 5.56x45mm, 62 gr. FMJ (M855)  
Test Velocity: 944.9 m/s +/- 15.2 (3100 +/- 50 ft/s)

**Shot Spacing Requirements:**  
•Shot Pattern: NIJ 0101.06 6-Shot Die Pattern  
•Shot-to-Edge: 2.0" Minimum  
•Shot-to-Shot: 2.0" Minimum  
•Shot locations are described from the shooter's perspective

**Sample Description:**  
•Customer Proprietary

Project Manager: Nold  
Range Tech(s): Zerger Diefenderfer