

# DURITIUM III+PS

## Advanced Body Armor Plates

### BALLISTIC RESISTANCE TEST

#### NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: ShotStop Ballistics, LLC  
Job No.: 2631-035-2  
Test Date: 5/4/2018

#### Test Panel

Description: Torso plate tested as stand alone.  
S/N: 021518-606; L/N: 021518-1

Manufacturer: ShotStop Ballistics, LLC

Sample No.: 021518-606

Size: 10.00 x 12.00 in  
Avg. Thick: NA  
Thickness: NA

Weight: 3.27 lbs  
Plies/Laminates: NA

Date Received: 5/2/2018  
Via: UPS  
Returned: UPS

#### Setup

Shot Spacing: NIJ-STD-0101.06 Level III  
Witness Panel: Clay  
Backing Material: 5.5-in clay/plywood  
Condition: Ambient

Primary Vel. Screens (ft): 37.000, 37.333,  
46.667, 47.000  
Primary Vel. Location (ft): 42.000  
Range to Target (ft): 50.200  
Target to Witness (in): 0.000

Range No.: 5  
Temp: 67.8 °F  
BP: 29.8 inHg  
RH: 41.1%  
Barrel/Gun: CT-4016  
Gunner: C. Peddicord  
Recorder: Tony Contreras

#### Ammunition

Projectile	Lot No.	Powder
(1) 7.62 x 39-mm, 123-grain PS Ball	Russian	N 110

#### Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 9:00 AM; Block No. 17; Temp: 97.1 °F; Drop Depths: 17.4mm, 18.2mm, 19.0mm, 19.4mm, 17.5mm  
(1) NIJ-STD-0101.06 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	Deformation (mm)	Obliq. (°)	Footnotes
1	1	120.7	4147	2411	3871	2411	2411	None	28.0	0.0	
2	1	121.8	4136	2418	3859	2419	2418	None	32.0	0.0	
3	1	122.0	4185	2389	3905	2390	2390	None	NA	0.0	
4	1	121.8	4095	2442	3822	2442	2442	None	NA	0.0	
5	1	121.0	4160	2404	3883	2404	2404	None	NA	0.0	
6	1	121.3	4148	2411	3872	2410	2411	None	NA	0.0	

#### Remarks:

Required velocity: 2400 ±30 ft/s

#### Footnotes:



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Ballistics solutions or visit [www.shotstop.com](http://www.shotstop.com)

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