ISO-5.10-FR14.02

# HPW-TP-0401.01B, Level IIIA - Test Report

Dazzeon Technology Co., Ltd.

Client: Attention: Thomas Chen

6F, No. 337, Sec. 1, Dunhua S. Rd., Da'an Dist.

Taipei City, Taiwan 10685

Report date: 13 March 2017

Job number: 000007000A

**Test procedure and** Per Customer Instructions **supporting documentation:** HPW-TP-0401.01B, Level IIIA

Sample receipt,

identification information,

and disposition:

The sample(s) were received on **7 March 2017**. Sample item identification and description details are provided on the attached data record(s). The test sample(s) were inspected prior to testing and no anomalies were discovered. Sample(s) will be

returned, discarded, or held, per customer instructions.

Test date(s) and location: Testing commenced on **8 March 2017**, at the H.P. White Laboratory, Inc. facilities located at 3114 Scarboro Road, Street, Maryland. Testing concluded on **8 March 2017**.

**Report prepared by:** Tiffany Haines, Customer Operations Specialist

**Report reviewed by:** Chris D'Amario, Engineer

Revision number and date: NA

Test data transmittal method and storage

location:

Disclaimer:

This test report and test data were transmitted via email in a manner compliant with ISO 17025 requirements. Permanent electronic and hardcopy files are maintained in accordance with HPWLI data storage policy on data storage systems, filed by job number.

Testing was performed on sample(s) provided by the client. H.P. White Laboratory, Inc. holds no responsibility for sample selection methods. This report is based on data obtained from testing only the sample(s) submitted, and should NOT be interpreted as an endorsement by H.P. White Laboratory, Inc. of the continuing quality or performance of any other items of the same, or similar, design. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This testing was performed by H.P. White Laboratory, Inc. to client specification, and the test results are the property of the client, who holds all rights of reproduction or publication of this report and related test data.

These items are controlled by the U.S. government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S.

law and regulations.

Destination control statement:

<u>Ballistic Resistance Testing:</u> All testing was conducted on an indoor range at ambient conditions, in accordance with your instructions and the provisions of HPW-TP-0401.01B, Level IIIA. Testing was conducted using caliber 9mm, 124 gr., FMJ ammunition. The test sample(s) were positioned 16.5 feet from the muzzle of the barrel to produce zero (0°) degree obliquity impacts, with respect to the tangent of the helmet curvature at the points of impact. Photoelectric infrared screens were located at 6.5 feet and 9.5 feet which, in conjunction with electronic chronographs, were used to compute bullet velocities at 8.0 feet forward of the muzzle. Back-face signature was measured using a calibrated digital depth gauge. Table I provides a summary of information on the attached data record(s).

Table I: Ballistic Resistance, HPW-TP-0401.01B, Level IIIA, Summary of Results

Tes	Set-Up			Results						
Conditioning	Sample No.	Weight (lbs.)	Caliber	Obliquity	Shots (a)	Velocity (fps)		Penetration(s)	Deformation (mm ) (b)	
Conditioning						Max	Min	r enetration(s)	Max	Min
AMBIENT	HELMET A	3.23	9mm	0°	5	1425	1403	0	17.1	5.1

- (a) See individual data record(s) for specific shot details
- (b) Deformation of clay filled head form.

Report prepared by:

**Tiffany Haines** 

**Customer Operations Specialist** 

Tiggary Haines

Report reviewed by:

Chris D'Amario

Engineer

Client: 6024: DAZZEON TECHNOLOGY CO., LTD

Job No.: 000007000 Test Date: 3/8/17

### **TEST PANEL**

Manufacturer: BLUE SHIELD TECHNOLOGY CO., LTD.

Size : NA Weight : 3,23 |bs. Date Rec'd. : 3/7/2017

Sample No. : HELMET A

Thicknesses : 0.317, 0.314, 0.315, 0.310 in. Hardness : NA Via : Avg. Thick. : 0.314 in. Plies/Laminates : NA Returned :

Description: RIGID WOVEN ARAMID FIBER IN MATRIX.

(HELMET)

SET-UP Primary Vel. Screens: 6.5 ft., 9.5 ft. Range No.: 10

Shot Spacing: PER HPW-TP-0401.01B Primary Vel. Location: 8.0 ft. From Muzzle Temp.: 68.8 F

Witness Panel : CLAY Residual Vel. Screens : NA BP : 29.81 in. Hg

Obliquity: 0 deg. Residual Vel. Location: NA RH: 56%

Backing Material : NA Range to Target : 16.5 ft. Barrel No./Gun : 9mm/ R10

Conditioning : AMBIENT Target to Wit. : 0.0 in. Gunner : ALLINGHAM

Recorder : WOLFE

#### AMMUNITION

(1): 9mm, FMJ, 124 gr. Lot No.: 23558-1A

(2): Lot No.:
(3): Lot No.:
(4): Lot No.:

### APPLICABLE STANDARDS OR PROCEDURES

(1): HPW-TP-0401.01B, LEVEL: IIIA

(2): REQUIRED VELOCITY: 1400-1450 fps.

(3): CLAY DROPS: 23mm, 23mm, 24mm

Shot No.	Ammo.	Time 1 (usec)	Velocity 1 (ft/s)	Time 2 (usec)	Velocity 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Footnotes
1 2 3 4 5	1 1 1 1 1 1	2132 2138 2118 2103 2132	1407 1403 1416 1427 1407	2127 2140 2123 2108 2132	1410 1402 1413 1423 1407	1409 1403 1415 1425 1407	None None None None	(a) DEF. 12.4mm (b) DEF. 11.4mm (c) DEF. 17.1mm (d) DEF. 6.2mm (e) DEF. 5.1mm

## **REMARKS:**

1. WEIGHT OF HELMET INCLUDES SUSPENSION SYSTEM.

## **FOOTNOTES:**

- (a) SHOT IMPACTED ON CROWN OF HELMET.
- (b) SHOT IMPACTED ON FRONT OF HELMET.
- (c) SHOT IMPACTED ON BACK OF HELMET.
- (d) SHOT IMPACTED ON RIGHT SIDE OF HELMET.
- (e) SHOT IMPACTED ON LEFT SIDE OF HELMET.

Filename: 000007000 (HELMET A) 6024 GONG WEI CO. LTD..Pen