

Cert. No: LF20211861



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中国认可
国际互认
检测
TESTING
CNAS L0269

Certificate of Test

Client: CHINA HENGTAI GROUP CO., LIMITED

Address: Unit 1507C, 15/F., Eastcore, 398 Kwun Tong Road, Kwun Tong, Kowloon, Hong Kong

Sample Name: Ballistic Helmet

Physical and Chemical Inspection Center in Non-metals
Material of Ordnance Industries


Oct.25.2021,

Physical and Chemical Inspection Center in Non-metals Material of Ordnance Industries

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Sample Name	Ballistic Helmet	Test Type	Consignation Test
Client	CHINA HENGTAI GROUP CO., LIMITED	Contact Person	Frank Zhu
Address	Unit 1507C, 15/F., Eastcore, 398 Kwun Tong Road, Kwun Tong, Kowloon, Hong Kong	Phone	13302019738
Date Received	10/18/2021	Date Tested	10/22/2021
Sample Amount	1	Sample No.	XX1018-1
Test Standard	NIJ 0106.01 NIJ Standard for Ballistic Helmets NIJ 0101.06 Ballistic Resistance of Body Armor IIIA (.44 Mag.)		
Categories	Ballistic Resistance		
Test Conclusion	<p>The Ballistic Helmet provided by CHINA HENGTAI GROUP CO., LIMITED was tested according with NIJ 0106.01 & NIJ 0101.06 IIIA (.44 Mag.). Under normal temperature and humidity, no perforation occurs after 5 fair shots at different points of the sample with .44 Magnum SJHP under the reference velocity of 436m/s \pm 9m/s and the maximum indentation depth is 22.3mm.</p> <p>Laboratory configuration, sample description and test results are showed from Page 2 to 4.</p> <div style="text-align: center;">  <p>Physical and Chemical Inspection Center in Non-metals Material of Ordnance Industries Oct. 25, 2021</p> </div>		
Prepared By: Gawho	Reviewed By: Penggang	Approved By: Juyin	

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Laboratory Configuration	
Test Unit	Physical and Chemical Inspection Center in Non-metals Material of Ordnance Industries
Ambient Test Conditions	Temperature: 20°C; Relative Humidity: 50%
Setup	Weapons: Ballistic Barrel Bullets: .44 Magnum SJHP Electrical chronometer (No.:6015) Caliper Gauge(No.: 11242252) Electronic Balance (No.:F40604303)
Test Range	5m
Angle of Incidence	0°
Sample Description	
Sample No.	XX1018-1
Configuration	The helmet shell is made of PE composites.
Remarks	The indentation depth was measured referring to HPW-TP-0401.01B.



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Results of Ballistic Resistance Test

Conditioning	Sample No.	Thickness (mm)	Weight (g)	Shot No.	Impact Point	Velocity(m/s)	Results	Indentation Depth(mm)
Normal Temperature and Humidity	XX1018-1	10.4	1238	1	Front	433.8	Stop	18.5
				2	Back	430.7	Stop	19.2
				3	Left	432.0	Stop	18.8
				4	Right	437.5	Stop	22.3
				5	Crown	433.0	Stop	18.7

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Attached Pictures



(a) front



(b) back



(c) left



(d) right



(e) crown



(f) inside

Fig. 1 Ballistic Helmet (after testing)