

Cert. No: LF20201987



Certificate of Test

Client: Newtech Advanced Material Technologies (Wuxi) Co., Ltd.

Address: Room 503, Building No. 22, Huize Road, Binhu District, Wuxi,
Jiangsu Province, China

Sample Name: Ballistic Plate

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

Nov.06.2020

NOTES

1. Without business seal and paging seal the certificate is invalid.
2. Without approver signature the certificate is invalid.
3. Without the written approval of our laboratory, the certificate should not be reproduced except in full.
4. This Certificate is based on data obtained from having test only the samples submitted and should not be interpreted as an endorsement by Physical and Chemical Inspection Center in Non-metals Material of Ordnance Industries of the continuing quality, or performance, of any other items of the same, or similar design.
5. All instrumentation and measurement devices were calibrated in accordance with ISO 17025 Requirements.

Add.: No.3 Tianjiazhuang east road, Tianqiao District, Jinan

P.O. Box 108, Jinan, China

Zip: 250031

Tel.: +86-0531-85878142

Fax: +86-0531-85878162

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

Certificate of Test

Page 1 of 4

Cert. №: LF20201987

Sample Name	Ballistic Plate	Test Type	Consignation Test
Client	Newtech Advanced Material Technologies (Wuxi) Co., Ltd.	Address	Room 503, Building No. 22, Huize Road, Binhu District, Wuxi, Jiangsu Province, China
Contact Person	Zhou Ding	Phone	15062208501
Date Received	26/10/2020	Date Tested	30/10/2020
Sample Amount	1	Sample No.	201007280001
Test Standard	NIJ 0101.06 Ballistic Resistance of Body Armor Level IV		
Categories	Ballistic Resistance		
Test Conclusion	<p>The Ballistic Plate provided by Newtech Advanced Material Technologies (Wuxi) Co., Ltd. was tested according with NIJ 0101.06 Level IV and client requirements. Under normal temperature and humidity, no perforation occurs after 3 fair shots at the sample with 7.62mm API, no Backface Signature (BFS) depth exceeds 44mm and the maximum BFS depth is 31.4mm. The test results show the ballistic resistance of the sample satisfies the requirements of NIJ 0101.06 Level IV.</p> <p>Laboratory configuration, sample description and test results are showed from Page 2 to 4.</p> <p style="text-align: right;">Physical and Chemical Inspection Center in Non-metals Material of Ordnance Industries Nov.06.2020</p>		
Prepared By:	<i>Gao</i>	Reviewed By:	<i>Feng</i>
		Approved By:	<i>[Signature]</i>



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

Page 2 of 4

Cert. №: LF20201987

Laboratory Configuration	
Test Unit	Physical and Chemical Inspection Center in Non-metals Material of Ordnance Industries
Ambient Test Conditions	Temperature: 18°C; Relative Humidity: 60%
Setup	Weapons: Ballistic Barrel Bullets: 7.62mm API Electrical chronometer (No.: 6015) Caliper Gauge(No.: 11242252) Meter Rule (No.: LS02061) Electronic Balance(No.: F40604303)
Test Range	15m
Distance from Measuring Point to Target	2m
Angle of Incidence	0°
Sample Description	
Sample No.	201007280001
Sample Type	A-4EC STA
Configuration	Al ₂ O ₃ Ceramic + PE
Remarks	※ Client requirements: The sample should be shot with 3 rounds of 7.62mm API, every backface signature (BFS) depth of fair shots should be measured.

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

Page 3 of 4

Cert. №: LF20201987

Results of Ballistic Resistance Test

Sample Parameters				
Sample No.	Size(mm×mm)	Thickness(mm)	Weight (g)	Conditioning
201007280001	300×245	22.5	2915	Normal Temperature and Humidity
Test Results				
Shot No.	Velocity(m/s)	Results	BFS Depth(mm)	
1	880.3	Stop	26.2	
2	885.7	Stop	31.4	
3	877.6	Stop	23.7	
	Blank			
Remarks	Clay Drops: 18.1mm, 17.6mm, 18.3mm, 17.8mm, 19.8mm.			

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

Page 4 of 4

Cert. №: LF20201987

Attached Pictures



Fig. 1 Ballistic Plate 201007280001 (strike face)

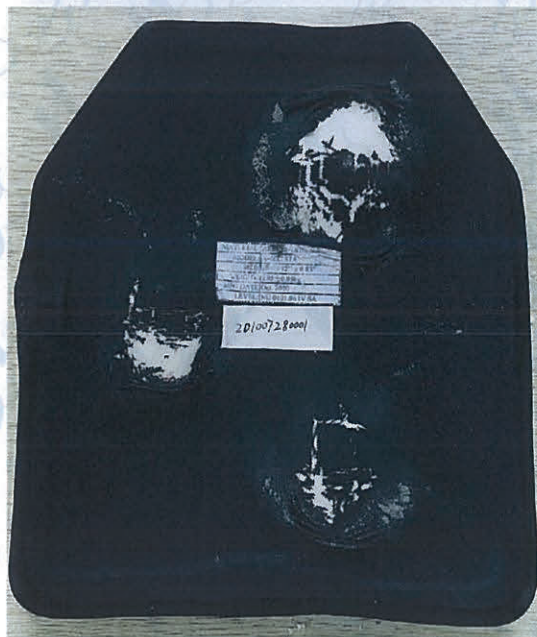


Fig. 2 Ballistic Plate 201007280001 (wear face)