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中国认可
国际互认
检测
TESTING
CNAS L6011



Test Report

BJZ(2024) 0339

Name: Ballistic Insert

Type: 25.4*30.5cm

Test Sort: Commission Test

Client: Chengdu Yiming Machinery Equipment Manufacturing Co. Ltd.

Date: Oct.24, 2024

Test Center of Ordnance and Equipment Research Institute,
China Ordnance and Equipment Group



Notice

- 1 The test-report invalidate if no special test-stamp.
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- 3 The test-report invalidate if it is altered and copied.
- 4 It should be demurred within fifteen days after received the test-report. Not accept if expired.
- 5 The test-report is just answer for the test sample.

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Test Report



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Name	Ballistic Insert	Type	25.4*30.5cm
Client	Chengdu Yiming Machinery Equipment Manufacturing Co. Ltd.	Client Principal	Chen Yuankun
Address	No. 388, Chuangxin Road, Industrial Park, Qingbaijiang District, Chengdu, Sichuan	Telephone	13980873979 17745036882
Manufacturer	Chengdu Yiming Machinery Equipment Manufacturing Co. Ltd.	Test Sort	Commission Test
Test Date	Oct. 22, 2024	Brand	Chengdu Yiming
Lot Number	YP2024-1016	Sample Quantity	1
Sample Number	YP2024-1847	Sample State	Good
Standard	NIJ Standard-0101.06 Ballistic Resistance of Body Armor		
Test item	Bulletproof Performance		
Test Conclusion	The ballistic insert (sample), which was provided by Chengdu Yiming Machinery Equipment Manufacturing Co. Ltd., has been tested by ball firing at normal temperature. The bulletproof performance conforms to the requirements of Level IV of Standard-0101.06 Ballistic Resistance of Body Armor. See table and figure 1-2.		
Remarks	/		

Editor: Yuan Hong Censor: Zhang Luchao Approver: Tian Miao

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Test place, environment (special requirement of environment) and test equipments	
Test place	Test Center of Ordnance and Equipment Research Institute, China Ordnance and Equipment Group
Test environment (special requirement of environment)	Indoor: temperature 21°C、humidity 53%RH
Test equipments	Universal standard Measure Tools Ballistic Analytic System (No.328000212) Electro- balance (No.CSJL-00122) Testing weapon: type 53 7.62mm ballistic trajectory gun Testing ammunition: type 53 7.62mm API(handloads)
Character & Structure of sample	The sample is layered composite lightweight protective armor.

Test Table of Ballistic Insert

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Sample Number	Sample Weight (kg)	Protected Area (m ²)	Sample Condition	Shooting Distance (m)	Angle Incidence	Shooting Sequence	Muzzle Velocity (m/s)	Penetration	BFS Depth	
									Requirement (mm)	Measured Value (mm)
YP2024 -1847	2.817	0.07	Normal Temperature	15	0°	1	871.2	NP	≤ 44.0	13.84
						2	875.3	NP		15.12
						3	877.4	NP		17.11
						4	872.4	NP		25.66
						5	872.8	NP		22.67
						6	869.7	NP		20.75



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Picture 1 Impact Side



Picture 2 Backing Material

