



The Test Center Of Bulletproof Equipment Of China Ordnance Industry

Test Report

BFJZ (2008) 262

Name:	<u>Body Armor Material Panel</u>
Type:	<u>RYY97-10</u>
Client:	<u>Ningbo Rongyi Chemical Fiber Science & Technology Co., Ltd.</u>
Test Aim:	<u>Ballistic Resistance Function</u> <u>Refer to NIJ Standard-0101.04</u>
Standard:	<u>Ballistic Resistance of Personal Body Armor</u>
Date:	<u>Nov. 24, 2008</u>



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Type:	<u>RYY97-10</u>
Client:	<u>Ningbo Rongyi Chemical Fiber Science & Technology Co., Ltd.</u>
Manufacturer:	<u>Ningbo Rongyi Chemical Fiber Science & Technology Co., Ltd.</u>
Brand:	<u>Rongyi Science & Technology</u>
Test Date:	<u>Nov. 21, 2008</u>

Test Result

The firing practice test shows that Type Ryy97-10 Body Armor Material Panel (sample), provided by Ningbo Rongyi Chemical Fiber Science & Technology Co., Ltd., be shot by 9mm Parabellum pistol cartridge (FMJ) fired from 9mm Uzi Sub-machine gun at the range of 5m. Testing condition is normal temperature (natural temperature). Totally fired 6 rounds and the maximum deformation depth on the artificial body is 26.0mm attacking from the front sample, and no penetration..

The attached chart and pictures No.1-2 show the details.

Author: *Sun Hongying* Censor: *Tian Qiu Yi* Approved By: *Peng Yuchun*

Test Results of Ballistic Resistance Specification of Type RYY97-10 Body Armor Material Panel

Temperature : 4°C

Attached Chart

Body Armor Material Panel Weight (kg)	Body Armor Material Panel Protected Area (m ²)	Body Armor Material Panel Structure	Temperature Condition	Shooting Range (m)	Angle of Incidence	Testing Sequence	Velocity (m/s)	Penetrations	Deformation Depth (mm)
0.84	0.16	PE Layer	Normal Temperature (Natural Temperature)	5	0°	1	409	PP	22.8
						2	424	PP	26.0
						3	419	PP	25.5
						4	416	PP	26.0
						5	416	PP	24.2
						6	421	PP	20.0
Remarks	<ol style="list-style-type: none"> 1. The test conclusion only reacted to the sample. 2. Weapon in testing : 9mm Uzi Sub-machine gun. 3. Ammunition in testing : 9mm Parabellum pistol cartridge (FMJ). 4. Keep ammunition at temperature 20 ± 2°C for 2h before test. 5. Determination of the muzzle velocity with B215/B470 Ballistic Analytic System. 								

Shooter: Wang Kun

Operator: Song Qingqing

Measure: Tian Guiyi

Recorder: Song Qingqing

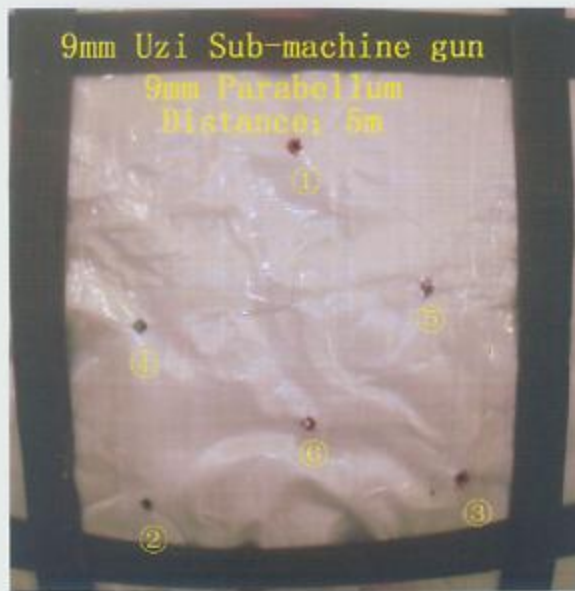


Figure 1

Shot marks of Type RYY97-10 Body Armor
Material Panel from the front attack



Figure 2

Deformation shape
on the artificial body