

# **TEST REPORT**

2022CO6144

DATE OF RECEPTION

14/05/2022

**DATE TESTS** 

Starting: 15/05/2022 Ending: 20/07/2022 **APPLICANT** 

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Att. Brendon Tiik

## **IDENTIFICATION AND DESCRIPTION OF SAMPLES**

| REFERENCE      | REFERENCE PROVIDED BY THE CUSTOMER | DESCRIPTION                   |
|----------------|------------------------------------|-------------------------------|
| 2022CO6144-S01 | PLATE Model nr: PL2530SA_PE_M      | PLATE Model nr: PL2530SA_PE_M |

## **TESTS CARRIED OUT**

- BALLISTIC RESISTANCE TEST.





# **SAMPLE/S DESCRIPTION**

Reference

2022CO6144-S01



AITEX has no evidence that the tests included in this report correspond to the tests stipulated in a technical specification of a public or private tender.

# RESULTS

## **BALLISTIC RESISTANCE TEST**

#### Standard

Perforation and Backface Signature Test (P-BFS) according to point 7.8 from NIJ 0101.06

#### Standard deviation

Tests method according to NIJ 0101.06 but modified according to the client: the complete test for classification is not carried out, only one plate to be tested with one six shots 7.62 x 51 mm M80 at (848±9) m/s without pretreatment. All the BFS are recorded.

#### Classification level

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#### **Apparatus**

Shooting range 13037IE12

#### Reference

2022CO6144-S01

## Sample description

250 x 300 mm plate with black protective cover and without carrier. It is 1356 g weight and 32.5 mm thick.

According to the information supplied by the client:

It is UHMWPE 250x300 mm plate.

## Sample conditioned

More than 24 h in test conditions

## **Pretreatment**

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#### Handload velocity test

OK

#### Velocity measurement

The velocity measurement is made using optical barriers and radar. In the tables of results it is shown the speed at the impact point.

#### **Test shot distance**

15 m

# Strapping arrangement

According to the standard NIJ 0101.06

## Requirements

There should be no perforation of the sample and the traumas must not be higher than 44 mm.

## **Test conditions**

22.1°C / 49.6% H.R.

#### **Test date**

14/07/2022 - 15/07/2022

### Roma #1 Plastiline Calibration

AVERAGE: 20.0 mm (before the test) and 38°C AVERAGE: 18.9 mm (afterthe test) and 35°C

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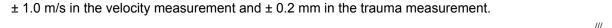
# Results by panel

## Caliber 1

7.62 x 51 mm M80 9.6 g at (848 ± 9.1) m/s

| POSITION | ANGLE | VELOCITY | FAIR HIT (Yes/No) | PERFORATION | TRAUMA (mm) |
|----------|-------|----------|-------------------|-------------|-------------|
| 3        | 0°    | 858,5    | Yes               | No          | 33,7        |
| 2        | 0°    | 839,9    | Yes               | No          | 40,2        |
| 3        | 0°    | 847,3    | Yes               | No          | 37,3        |
| 4        | 0°    | 851,4    | Yes               | No          | 32,4        |
| 5        | 0°    | 850,9    | Yes               | No          | 29,4        |
| 6        | 0°    | 849,9    | Yes               | No          | 30,5        |

## **Test uncertainty**



### **Begoña Picó** Head of Public Tenders Division



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