

TEST REPORT

Laboratory testing of Padel balls according to requirements of International Padel Federation

UNIPADEL PADEL PROS

LABORATORY TEST REPORT N° R251635-B1

LE MANS, le 03/11/2025

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The results are valid only for the tested sample. Complete results available on request.

1 ■ CLIENT DETAILS

Company : **PADEL PROS**
CHINA

Date of order : 27/08/2025
Date of sample reception : 15/10/2025
Sample reference : 040659

2 ■ SAMPLE IDENTIFICATION



Manufacturer:

PADEL PROS

Model :

UNIPADEL

Category :

Padel Standard Type
 Padel High Altitude Type

Type :

With pressure
 Without pressure

Color(s) :

Yellow
 White

Packaging :

Cans of 3 balls
 Cans of 4 balls

3 ■ TEST PROCEDURE

In accordance with the International Padel Federation, the test procedure is the following:

A box of 24 cans have to be submitted of padel balls (72 balls). We select 24 padel balls randomly for testing. The padel balls are extracted from the cans and kept in the control atmosphere for a minimum of 24 hours, then after which the test will proceed.

Prior to the testing and after visual inspection, each ball should be marked with a letter, number and code. The corresponding test results are assigned to each marked ball.

4 ■ SAMPLE CONDITIONING AND TESTING CONDITIONS

Prior to testing, balls are conditioned during 24 hours at a room temperature of $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ with a relative humidity of $60\% \pm 5\%$. The atmospheric pressure is 76 cm of mercury.

Tests are performed following the test sequence:

- Mass measurement
- Diameter control (Size)
- Pre-compression
- Vertical ball rebound
- Forward deformation (Compression) and Return deformation (Recovery measurement)

Tests after durability (simulate the effects of nine games of play):

- Mass measurement
- Vertical ball rebound
- Forward deformation (Compression) and Return deformation (Recovery measurement)

4.1 ■ MASS MEASUREMENT

Balls are weighed with a weighing scale Précisa 92SM-202A (precision of 0,0001g)

4.2 ■ DIAMETER CONTROL (SIZE)

The diameter control is carried out with two ring gauges with the following characteristics:

- Diameters of the upper and lower limits for the respective balls. The ring gauge used shall consist of a metal plate of uniform thickness of 0.32cm.
- The inner surface of the gauge has a convex profile with a radius of 0.16cm.

The ball shall rest under its own weight directly below the contact foot of the drop gauge.

4.3 ■ PRE-COMPRESSION

Prior to deformation testing, the ball is pre-compressed through a distance of 2.54cm (1 inch), 3 times on each of the 3 perpendicular axes.

All subsequent tests are to be completed within 2 hours of pre-compression.

4.4 ■ VERTICAL BALL REBOUND

The ball rebound equipment conforms with the European standard EN 12235.

The ball is held from a height of 254 cm \pm 3 cm with a special vacuum system. When the vacuum system is switched off, the ball falls freely on a black marble plate. A microphone records 2 first ball rebounds.

The vertical ball rebound is calculated following the formula used on the EN 12235 standard, based on the time between the 2 rebounds. The rebound calculation is corrected, based on round robin tests performed with the laboratory of the International Tennis Federation.

4.5 ■ FORWARD AND RETURN DEFORMATION

The test is carried out with an automated compression cycle equipment.

The ball is placed in the machine and then compressed at a constant speed. The forward deformation in compression is then noted. The ball is then compressed to a 2.54cm (1 inch) deformation and decompressed at the same and constant speed. The return deformation is then noted.

The test is performed for each ball on each of the 3 perpendicular axes. The values are expressed in inch and converted in centimetre with 2 digits after the comma.

5 ■ TEST RESULTS

5.1 ■ REBOUND, DIAMETER, MASS BEFORE DURABILITY (1/2)

Ball	Rebound (cm)			Diameter (mm)	Mass (g)	
	Rebound	Average	Conformity	Conformity	Mass (g)	Conformity
1	140.3	141.6	YES	YES	58.6	YES
	140.8					
	143.2					
	142.1					
2	137.9	141.6	YES	YES	56.5	YES
	141.9					
	142.4					
	144.3					
3	145.3	144.0	YES	YES	58.6	YES
	142.4					
	142.7					
	145.6					
4	141.1	141.4	YES	YES	58.1	YES
	141.1					
	140.8					
	142.7					
5	141.6	142.9	YES	YES	57.7	YES
	144.5					
	142.7					
	142.9					
6	144.0	144.3	YES	YES	57.6	YES
	143.7					
	146.1					
	143.5					
7	144.0	144.1	YES	YES	58.4	YES
	144.0					
	145.3					
	143.2					
8	142.9	142.3	YES	YES	59.2	YES
	140.5					
	143.2					
	142.4					
9	147.0	145.5	NO	YES	58.6	YES
	144.5					
	143.7					
	146.7					
10	145.1	141.9	YES	YES	58.1	YES
	142.7					
	141.1					
	138.7					
11	141.6	142.2	YES	YES	58.6	YES
	142.7					
	142.1					
	142.4					
12	143.5	143.0	YES	YES	58.7	YES
	140.5					
	140.5					
	146.1					

5.2 ■ REBOUND, DIAMETER, MASS BEFORE DURABILITY (2/2)

Ball	Rebound (cm)			Diameter (mm)	Mass (g)	
	Rebound	Average	Conformity	Conformity	Mass (g)	Conformity
13	142.7	142.7	YES	YES	58.6	YES
	140.3					
	145.3					
	142.4					
14	145.6	142.5	YES	YES	57.6	YES
	142.9					
	142.4					
	139.2					
15	142.7	143.3	YES	YES	58.8	YES
	142.7					
	142.4					
	145.6					
16	142.9	143.7	YES	YES	58.8	YES
	143.2					
	145.1					
	143.5					
17	139.7	140.9	YES	YES	59.0	YES
	141.9					
	141.6					
	140.3					
18	142.9	143.9	YES	YES	58.3	YES
	142.7					
	143.5					
	146.7					
19	144.5	143.7	YES	YES	57.7	YES
	143.7					
	145.9					
	140.5					
20	142.4	142.2	YES	YES	57.2	YES
	140.8					
	142.9					
	142.7					
21	144.3	143.9	YES	YES	57.5	YES
	144.0					
	142.9					
	144.3					
22	142.9	143.3	YES	YES	58.8	YES
	144.0					
	142.9					
	143.2					
23	142.7	143.9	YES	YES	59.0	YES
	145.3					
	145.1					
	142.4					
24	144.8	145.0	YES	YES	58.5	YES
	145.6					
	146.1					
	145.3					
Average		143.1	YES	YES	58.3	YES
Standard deviation		1.2			0.7	

5.3 ■ FORWARD AND RETURN DEFORMATION BEFORE DURABILITY

Ball	Compression (cm) - Forward deformation						Recovery (cm) - Return Deformation						
	Axis1	Axis2	Axis3	Average	Measurement checking ^(a)	Conformity	Axis1	Axis2	Axis3	Average	Measurement checking ^(a)	Conformity	
1	0.620	0.630	0.640	0.630	PASS	PASS	0.850	0.870	0.870	0.860	PASS	PASS	
2	0.630	0.630	0.660	0.640	PASS	PASS	0.860	0.880	0.890	0.880	PASS	PASS	
3	0.650	0.660	0.660	0.657	PASS	PASS	0.880	0.890	0.890	0.890	PASS	PASS	
4	0.620	0.660	0.670	0.650	PASS	PASS	0.840	0.890	0.890	0.870	PASS	PASS	
5	0.630	0.620	0.650	0.633	PASS	PASS	0.860	0.860	0.870	0.860	PASS	PASS	
6	0.610	0.630	0.760	0.667	PASS	PASS	0.840	0.860	0.970	0.890	PASS	PASS	
7	0.600	0.660	0.640	0.633	PASS	PASS	0.830	0.880	0.860	0.860	PASS	PASS	
8	0.600	0.630	0.640	0.623	PASS	PASS	0.840	0.850	0.860	0.850	PASS	PASS	
9	0.600	0.620	0.630	0.617	PASS	PASS	0.830	0.850	0.840	0.840	PASS	PASS	
10	0.630	0.630	0.650	0.637	PASS	PASS	0.860	0.880	0.880	0.870	PASS	PASS	
11	0.620	0.630	0.650	0.633	PASS	PASS	0.850	0.870	0.870	0.860	PASS	PASS	
12	0.610	0.630	0.640	0.627	PASS	PASS	0.840	0.860	0.860	0.850	PASS	PASS	
13	0.610	0.630	0.650	0.630	PASS	PASS	0.850	0.860	0.870	0.860	PASS	PASS	
14	0.590	0.620	0.750	0.653	PASS	PASS	0.840	0.860	0.970	0.890	PASS	PASS	
15	0.620	0.630	0.640	0.630	PASS	PASS	0.850	0.860	0.860	0.860	PASS	PASS	
16	0.630	0.630	0.640	0.633	PASS	PASS	0.850	0.870	0.870	0.860	PASS	PASS	
17	0.620	0.650	0.650	0.640	PASS	PASS	0.860	0.880	0.880	0.870	PASS	PASS	
18	0.610	0.620	0.640	0.623	PASS	PASS	0.830	0.840	0.850	0.840	PASS	PASS	
19	0.620	0.640	0.650	0.637	PASS	PASS	0.850	0.870	0.870	0.860	PASS	PASS	
20	0.610	0.650	0.660	0.640	PASS	PASS	0.850	0.890	0.890	0.880	PASS	PASS	
21	0.610	0.640	0.640	0.630	PASS	PASS	0.840	0.880	0.860	0.860	PASS	PASS	
22	0.600	0.620	0.630	0.617	PASS	PASS	0.830	0.850	0.850	0.840	PASS	PASS	
23	0.620	0.630	0.640	0.630	PASS	PASS	0.860	0.870	0.860	0.860	PASS	PASS	
24	0.610	0.630	0.630	0.623	PASS	PASS	0.850	0.860	0.860	0.860	PASS	PASS	
Average				0.635	Max =	PASS	Average				0.863	Max =	PASS
Standard deviation				0.012	0.097		Standard deviation				0.015	0.050	

^(a) No two deformation readings shall differ by more than 0.08 cm on the average of a single reading along each of the 3 perpendicular axes.

5.4 ■ RESULTS OVERVIEW BEFORE DURABILITY

The number of balls meeting the requirements of the rules of the International Padel Federation is noted in the following table:

Test	Requirements		Tested balls				
	Lower limit	Upper limit	Average	Standard deviation	Balls conformity		
Rebound ⁽¹⁾ (cm)	135	145	143.1	1.18	23	on	24
Rebound ⁽²⁾ (cm)	121.92	135	143.1	1.18	0	on	24
Diameter (mm)	63.5	67.7	/	/	24	on	24
Mass (g)	56.0	59.4	58.3	0.66	24	on	24
Forward deformation (cm)	0.56	0.74	0.63	0.01	24	on	24
Return deformation (cm)	0.80	1.08	0.86	0.01	24	on	24

⁽¹⁾ The Standard padel ball may be pressurised or pressureless. The pressureless ball shall be acclimatised a minimum of 60 days at the altitude of which the specific championship or tournament will be held. The internal pressure shall be no greater than 7 kPa and may be used for high altitude play above 1.219 m above sea level.

⁽²⁾ The High Altitude ball type is pressurised and is specified for play in court locations at high altitude of 1.219 m above sea level only.

5.5 ■ REBOUND, DIAMETER, MASS AFTER DURABILITY (1/2)

Ball	Rebound (cm)			Mass (g)	
	Rebound	Average	Conformity	Mass (g)	Conformity
1	141.1	142.3	YES	58.6	YES
	141.6				
	142.9				
	143.5				
2	141.6	143.5	YES	56.4	YES
	144.8				
	144.3				
	143.5				
3	142.4	143.3	YES	58.6	YES
	142.7				
	144.0				
	144.0				
4	143.7	142.0	YES	58.0	YES
	139.7				
	140.3				
	144.3				
5	144.3	143.8	YES	57.6	YES
	142.7				
	145.6				
	142.7				
6	144.8	144.6	YES	57.5	YES
	146.1				
	144.8				
	142.7				
7	145.9	145.5	YES	58.3	YES
	144.5				
	144.5				
	147.2				
8	144.3	144.7	YES	59.2	YES
	145.3				
	145.9				
	143.2				
9	145.1	145.6	YES	58.6	YES
	145.1				
	147.0				
	145.3				
10	144.5	144.0	YES	58.1	YES
	143.5				
	144.3				
	143.7				
11	142.9	144.4	YES	58.6	YES
	143.5				
	145.9				
	145.3				
12	144.8	144.0	YES	58.8	YES
	144.8				
	143.2				
	144.0				

5.6 ■ REBOUND, DIAMETER, MASS AFTER DURABILITY (2/2)

Ball	Rebound (cm)			Mass (g)	
	Rebound	Average	Conformity	Mass (g)	Conformity
13	144.0	143.9	YES	58.8	YES
	141.6				
	146.4				
	143.7				
14	139.5	143.3	YES	57.6	YES
	146.4				
	143.5				
	144.0				
15	143.5	143.9	YES	58.8	YES
	141.1				
	144.5				
	146.4				
16	142.7	144.0	YES	58.7	YES
	143.2				
	146.1				
	144.0				
17	141.6	142.4	YES	59.1	YES
	142.4				
	140.8				
	144.8				
18	144.0	145.8	YES	58.4	YES
	144.8				
	148.3				
	146.1				
19	147.0	145.5	YES	57.7	YES
	144.0				
	145.3				
	145.9				
20	148.6	145.3	YES	57.1	YES
	144.3				
	142.7				
	145.9				
21	144.0	145.8	YES	57.5	YES
	144.5				
	148.6				
	145.9				
22	143.5	144.1	YES	59.0	YES
	145.1				
	144.5				
	143.2				
23	142.9	145.5	YES	59.2	YES
	145.6				
	145.9				
	147.8				
24	143.5	145.0	YES	58.7	YES
	143.5				
	147.5				
	144.5				
Average		144.3	YES	58.3	YES
Standard deviation		1.1		0.7	

5.7 ■ FORWARD AND RETURN DEFORMATION AFTER DURABILITY

Ball	Compression (cm) - Forward deformation						Recovery (cm) - Return Deformation						
	Axis1	Axis2	Axis3	Average	Measurement checking ^(a)	Conformity	Axis1	Axis2	Axis3	Average	Measurement checking ^(a)	Conformity	
1	0.620	0.610	0.620	0.617	PASS	PASS	0.820	0.840	0.860	0.840	PASS	PASS	
2	0.650	0.650	0.660	0.653	PASS	PASS	0.850	0.880	0.880	0.870	PASS	PASS	
3	0.640	0.610	0.620	0.623	PASS	PASS	0.840	0.850	0.860	0.850	PASS	PASS	
4	0.610	0.620	0.640	0.623	PASS	PASS	0.840	0.860	0.870	0.860	PASS	PASS	
5	0.630	0.620	0.640	0.630	PASS	PASS	0.840	0.860	0.870	0.860	PASS	PASS	
6	0.620	0.600	0.630	0.617	PASS	PASS	0.820	0.830	0.850	0.830	PASS	PASS	
7	0.600	0.640	0.640	0.627	PASS	PASS	0.800	0.860	0.850	0.840	PASS	PASS	
8	0.610	0.610	0.610	0.610	PASS	PASS	0.810	0.840	0.840	0.830	PASS	PASS	
9	0.590	0.590	0.610	0.597	PASS	PASS	0.790	0.840	0.840	0.820	PASS	PASS	
10	0.620	0.620	0.650	0.630	PASS	PASS	0.850	0.850	0.870	0.860	PASS	PASS	
11	0.620	0.630	0.650	0.633	PASS	PASS	0.850	0.860	0.860	0.860	PASS	PASS	
12	0.610	0.630	0.650	0.630	PASS	PASS	0.830	0.860	0.850	0.850	PASS	PASS	
13	0.620	0.630	0.640	0.630	PASS	PASS	0.840	0.850	0.850	0.850	PASS	PASS	
14	0.620	0.610	0.640	0.623	PASS	PASS	0.850	0.840	0.850	0.850	PASS	PASS	
15	0.630	0.620	0.630	0.627	PASS	PASS	0.850	0.840	0.850	0.850	PASS	PASS	
16	0.620	0.640	0.640	0.633	PASS	PASS	0.840	0.860	0.850	0.850	PASS	PASS	
17	0.620	0.620	0.650	0.630	PASS	PASS	0.850	0.870	0.870	0.860	PASS	PASS	
18	0.610	0.620	0.630	0.620	PASS	PASS	0.820	0.840	0.840	0.830	PASS	PASS	
19	0.620	0.650	0.640	0.637	PASS	PASS	0.840	0.870	0.850	0.850	PASS	PASS	
20	0.620	0.650	0.660	0.643	PASS	PASS	0.850	0.870	0.880	0.870	PASS	PASS	
21	0.600	0.650	0.640	0.630	PASS	PASS	0.830	0.860	0.850	0.850	PASS	PASS	
22	0.600	0.610	0.610	0.607	PASS	PASS	0.810	0.830	0.840	0.830	PASS	PASS	
23	0.620	0.610	0.650	0.627	PASS	PASS	0.840	0.840	0.860	0.850	PASS	PASS	
24	0.610	0.600	0.620	0.610	PASS	PASS	0.830	0.830	0.840	0.830	PASS	PASS	
Average				0.625	Max =	PASS	Average				0.848	Max =	PASS
Standard deviation				0.012	0.030		Standard deviation				0.014	0.040	

(a) No two deformation readings shall differ by more than 0.08 cm on the average of a single reading along each of the 3 perpendicular axes.

5.8 ■ RESULTS OVERVIEW AFTER DURABILITY

The number of balls meeting the requirements of the rules of the International Padel Federation is noted in the following table:

Test	Requirements	Tested balls after durability				
		Maximum change with before durability	Average	Standard deviation	Balls conformity	
Rebound ⁽¹⁾ (cm)	± 4	144.3	1.12	24	on	24
Mass (g)	± 0.4	58.3	0.72	24	on	24
Forward deformation (cm)	± 0.08	0.63	0.01	24	on	24
Return deformation (cm)	± 0.10	0.85	0.04	24	on	24

⁽¹⁾ The Standard padel ball may be pressurised or pressureless. The pressureless ball shall be acclimatised a minimum of 60 days at the altitude of which the specific championship or tournament will be held. The internal pressure shall be no greater than 7 kPa and may be used for high altitude play above 1.219 m above sea level.

6 ■ CONCLUSION

Ball conformity status before durability:

Tested balls before durability						
Balls	Rebound ⁽¹⁾	Diameter	Mass	Forward deformation	Return deformation	Ball conformity status
1	PASS	PASS	PASS	PASS	PASS	PASS
2	PASS	PASS	PASS	PASS	PASS	PASS
3	PASS	PASS	PASS	PASS	PASS	PASS
4	PASS	PASS	PASS	PASS	PASS	PASS
5	PASS	PASS	PASS	PASS	PASS	PASS
6	PASS	PASS	PASS	PASS	PASS	PASS
7	PASS	PASS	PASS	PASS	PASS	PASS
8	PASS	PASS	PASS	PASS	PASS	PASS
9	FAIL	PASS	PASS	PASS	PASS	FAIL
10	PASS	PASS	PASS	PASS	PASS	PASS
11	PASS	PASS	PASS	PASS	PASS	PASS
12	PASS	PASS	PASS	PASS	PASS	PASS
13	PASS	PASS	PASS	PASS	PASS	PASS
14	PASS	PASS	PASS	PASS	PASS	PASS
15	PASS	PASS	PASS	PASS	PASS	PASS
16	PASS	PASS	PASS	PASS	PASS	PASS
17	PASS	PASS	PASS	PASS	PASS	PASS
18	PASS	PASS	PASS	PASS	PASS	PASS
19	PASS	PASS	PASS	PASS	PASS	PASS
20	PASS	PASS	PASS	PASS	PASS	PASS
21	PASS	PASS	PASS	PASS	PASS	PASS
22	PASS	PASS	PASS	PASS	PASS	PASS
23	PASS	PASS	PASS	PASS	PASS	PASS
24	PASS	PASS	PASS	PASS	PASS	PASS
Number of balls compliant on the 24 tested						23

Ball conformity status after durability:

Tested balls after durability					
Balls	Rebound ⁽¹⁾	Mass	Forward deformation	Return deformation	Ball conformity status
1	PASS	PASS	PASS	PASS	PASS
2	PASS	PASS	PASS	PASS	PASS
3	PASS	PASS	PASS	PASS	PASS
4	PASS	PASS	PASS	PASS	PASS
5	PASS	PASS	PASS	PASS	PASS
6	PASS	PASS	PASS	PASS	PASS
7	PASS	PASS	PASS	PASS	PASS
8	PASS	PASS	PASS	PASS	PASS
9	PASS	PASS	PASS	PASS	PASS
10	PASS	PASS	PASS	PASS	PASS
11	PASS	PASS	PASS	PASS	PASS
12	PASS	PASS	PASS	PASS	PASS
13	PASS	PASS	PASS	PASS	PASS
14	PASS	PASS	PASS	PASS	PASS
15	PASS	PASS	PASS	PASS	PASS
16	PASS	PASS	PASS	PASS	PASS
17	PASS	PASS	PASS	PASS	PASS
18	PASS	PASS	PASS	PASS	PASS
19	PASS	PASS	PASS	PASS	PASS
20	PASS	PASS	PASS	PASS	PASS
21	PASS	PASS	PASS	PASS	PASS
22	PASS	PASS	PASS	PASS	PASS
23	PASS	PASS	PASS	PASS	PASS
24	PASS	PASS	PASS	PASS	PASS
Number of balls compliant on the 24 tested					24

⁽¹⁾ : Only for Standard padel ball classification

According to the rules defined by the International Padel Federation (FIP Certification Approved Balls – 2025) below regarding ball compliance, the tested ball series **PADEL PROS – UNIPADEL** complies with the Federation's requirements:

Number of tested balls	Number of balls failing to conform	Action
24	0 - 2	Compliant
	3 and more	Not compliant

STATUS	PADEL PROS – UNIPADEL	COMPLIANT APPROVED
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→ Only one ball (N°9) on the 24 balls tested, fails the ball rebound (test performed before durability testing).

The results uncertainty has not been considered to declare or not the product conformity to the requirements.

Le Mans, le 03/11/2025



APPROVAL
Steve BAZEILLE
Laboratory D^{pt} Manager



WRITER
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