

Report ID: 396900

Date of sample receipt: 28/07/25

Date of issue: 29/09/25

SAVAS PLASTIK SAN. VE. TIC. A.S.  
BEYSAN SAN. SIT. BIRLIK CAD. NO: 18-BEY.  
34524 ISTANBUL  
TR - TURKEY

Sample name: SHELL-U armchair

## SAMPLE N° 396900

Overall dimensions: 530 x 600 x 790 (h) mm

### List of test reports:

1. Safety requirements EN 16139:2025
3. Seat and back static load test and seat front edge static load test EN 1728:2012+AC:2013
4. Vertical load on back rest EN 1728:2012+AC:2013
5. Arm sideways static load test EN 1728:2012+AC:2013
6. Arm downwards static load test EN 1728:2012+AC:2013
7. Seat and back fatigue test EN 1728:2012+AC:2013
8. Seat front edge durability test EN 1728:2012+AC:2013
9. Arm fatigue test EN 1728:2012+AC:2013
10. Leg forward static load test EN 1728:2012+AC:2013
11. Leg sideways static load test EN 1728:2012+AC:2013
12. Seat impact test EN 1728:2012+AC:2013
13. Backwards fall test EN 1728:2012+AC:2013
14. Arm rest impact test EN 1728:2012+AC:2013
15. Stability EN 1022:2023, clause 7.3



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The managing director  
Dr. Paolo Tirelli

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## SAMPLE N° 396900

Date of issue: 29/09/25

Sample name: SHELL-U armchair



Side view



Rear view



Bottom view

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## TEST REPORT

**396900 / 1**

Revision: 0  
Date of sample receipt: 28/07/25  
Date of test: 06/08/25  
Date of issue: 29/09/25



Sample name: SHELL-U armchair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
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## Safety requirements EN 16139:2025

Safety requirements EN 16139:2025, clauses 4.1. 4.2, 4.3

Statement checked	Remarks
Clause 4.1 - General requirements Corner and edges in contact with the users: • Absence of sharp edges and corners	Yes
Other edges: • Absence of sharp edges and corners	Yes
Movable and adjustable parts: • It shall not be possible for any movable and adjustable part of the chair to come operate unintentionally.	Movable and adjustable parts not present
Connections between parts of the structure: • It shall not be possible for any load bearing part of the seating to come loose unintentionally	No
Clause 4.2 - Holes and tubular / rigid components Holes in the ends of tubular components or holes in rigid components, in accessible parts: • > 8 mm and < 12 mm, unless the depth is < 10 mm	Yes
Clause 4.3 - Shear and compression points • Shear and compression points created only during setting up and folding • Shear and squeeze points under influence of non-electrically powered mechanism ( $\geq 8 \text{ mm} \leq 25 \text{ mm}$ ) • Shear and squeeze points during normal use and during normal movements and actions ( $\geq 8 \text{ mm} \leq 18 \text{ mm}$ )	Not present Mechanism not present No
Conformity to clauses 4.1, 4.2 and 4.3 of standard EN 16139:20125:	<b>YES</b>

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# TEST REPORT

## 396900 / 3

Revision: 0  
Date of sample receipt: 28/07/25  
Date of test: 07/08/25  
Date of issue: 29/09/25



Sample name: SHELL-U armchair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
BEYSAN SAN. SIT. BIRLIK CAD. NO: 18-BEY.  
34524 ISTANBUL  
TR - TURKEY

## Seat and back static load test and seat front edge static load test EN 1728:2012+AC:2013

Test performed according to the test method EN 1728:2012+AC:2013, clauses 6.4 and 6.5 and in accordance to the test parameters of EN 16139:2025, table 1

Seat and back static load test, clause 6.4, EN 1728:2012+AC:2013

Test results:

Seat load N	Back force N	Number of cycles	Remarks
1.600	560	10	No defects

Seat front edge static load, clause 6.5, EN 1728:2012+AC:2013

Seat load N	Number of cycles	Remarks
1.300	10	No defects

The test results comply with the requirements in clause 4.5.2 of standard EN 16139:2025, level 1

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**TEST REPORT**

**396900 / 4**

Revision: 0  
Date of sample receipt: 28/07/25  
Date of test: 07/08/25  
Date of issue: 29/09/25



Sample name: SHELL-U armchair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
BEYSAN SAN. SIT. BIRLIK CAD. NO: 18-BEY.  
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**Vertical load on back rest EN 1728:2012+AC:2013**

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.6 and in accordance to the test parameters of EN 16139:2025, table 1

**Test results:**

Seat load N	Downwards force N	Number of applications	Remarks
1.300	600	10	No defects

The test results comply with the requirements of clause 4.5.2 of standard EN 16139:2025, level 1

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**TEST REPORT**

**396900 / 5**

Revision: 0  
Date of sample receipt: 28/07/25  
Date of test: 07/08/25  
Date of issue: 29/09/25



Sample name: SHELL-U armchair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
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**Arm sideways static load test EN 1728:2012+AC:2013**

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.10 and in accordance to the test parameters of EN 16139:2025, table 1

**Test results:**

Horizontal force N	Number of applications	Remarks
400	10	No defects

The test results comply with the requirements in clause 4.5.2 of standard EN 16139:2025, level 1

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# TEST REPORT

**396900 / 6**

Revision: 0  
Date of sample receipt: 28/07/25  
Date of test: 07/08/25  
Date of issue: 29/09/25



Sample name: SHELL-U armchair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
BEYSAN SAN. SIT. BIRLIK CAD. NO: 18-BEY.  
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## Arm downwards static load test EN1728:2012+AC:2013

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.11 and in accordance to the test parameters of EN 16139:2025, table 1

### Test results:

Vertical force N	Number of applications	Remarks
750	5	No defects

The test results comply with the requirements in clause 4.5.2 of standard EN 16139:2025, level 1

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**TEST REPORT**

**396900 / 7**

Revision: 0  
Date of sample receipt: 28/07/25  
Date of test: 12/08/25  
Date of issue: 29/09/25



Sample name: SHELL-U armchair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
BEYSAN SAN. SIT. BIRLIK CAD. NO: 18-BEY.  
34524 ISTANBUL  
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**Seat and back fatigue test EN 1728:2012+AC:2013**

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.17 and in accordance to the test parameters of EN 16139:2025, table 1

**Test results:**

Seat load N	Back force N	Number of cycles	Remarks
1.000	300	100.000	No defects

The test results comply with the requirements in clause 4.5.2 of standard EN 16139:2025, level 1

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**TEST REPORT**

**396900 / 8**

Revision: 0  
Date of sample receipt: 28/07/25  
Date of test: 21/08/25  
Date of issue: 29/09/25



Sample name: SHELL-U armchair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
BEYSAN SAN. SIT. BIRLIK CAD. NO: 18-BEY.  
34524 ISTANBUL  
TR - TURKEY

**Seat front edge durability test EN 1728:2012+AC:2013**

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.18 and in accordance to the test parameters of EN 16139:2025, table 1

**Test results:**

Points of application	Seat force N	Number of cycles	Remarks
100 mm back from the front and sides edges	800	40.000	No defects

The test results comply with the requirements in clause 4.5.2 of standard EN 16139:2025, level 1

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**TEST REPORT**

**396900 / 9**

Revision: 0  
Date of sample receipt: 28/07/25  
Date of test: 26/08/25  
Date of issue: 29/09/25



Sample name: SHELL-U armchair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
BEYSAN SAN. SIT. BIRLIK CAD. NO: 18-BEY.  
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**Arm fatigue test EN 1728:2012+AC:2013**

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.20 and in accordance to the test parameters of EN 16139:2025, table 1

**Test results:**

Force on arm rest N	Number of cycles	Remarks
400	30.000	No defects

The test results comply with the requirements in clause 4.5.2 of standard EN 16139:2025, level 1

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# TEST REPORT

**396900 / 10**

Revision: 0  
Date of sample receipt: 28/07/25  
Date of test: 28/08/25  
Date of issue: 29/09/25



Sample name: SHELL-U armchair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
BEYSAN SAN. SIT. BIRLIK CAD. NO: 18-BEY.  
34524 ISTANBUL  
TR - TURKEY

## Leg forward static load test EN 1728:2012+AC:2013

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.15 and in accordance to the test parameters of EN 16139:2025, table 1

### Test results:

Forward horizontal force N	Balancing seat force N	Number of cycles	Remarks
500	1.000	10	No defects

The test results comply with the requirements in clause 4.5.2 of standard EN 16139:2025, level 1

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# TEST REPORT

**396900 / 11**

Revision: 0  
Date of sample receipt: 28/07/25  
Date of test: 28/08/25  
Date of issue: 29/09/25



Sample name: SHELL-U armchair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
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34524 ISTANBUL  
TR - TURKEY

## Leg sideways static load test EN 1728:2012+AC:2013

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.16 and in accordance to the test parameters of EN 16139:2025, table 1

### Test results:

Sideways horizontal force N	Balancing seat force N	Number of cycles	Remarks
400	1.000	10	No defects

The test results comply with the requirements in clause 4.5.2 of standard EN 16139:2025, level 1

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# TEST REPORT

**396900 / 12**

Revision: 0  
Date of sample receipt: 28/07/25  
Date of test: 28/08/25  
Date of issue: 29/09/25



Sample name: SHELL-U armchair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
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34524 ISTANBUL  
TR - TURKEY

## Seat impact test EN 1728:2012+AC:2013

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.24 and in accordance to the test parameters of EN 16139:2025, table 1

### Test results:

Mass of impactor kg	Height of drop mm	Impact point	Number of drops	Remarks
25	240	seat loading point (A)	10	No defects
25	240	on the longitudinal axis, 100 mm from the front seat edge	10	No defects

The test results comply with the requirements in clause 4.5.2 of standard EN 16139:2025, level 1

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**TEST REPORT**

**396900 / 13**

Revision: 0  
Date of sample receipt: 28/07/25  
Date of test: 28/08/25  
Date of issue: 29/09/25



Sample name: SHELL-U armchair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
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34524 ISTANBUL  
TR - TURKEY

**Backwards fall test EN 1728:2012+AC:2013**

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.28 and in accordance to the test parameters EN 16139:2025, table 1

Force measured to lift the front legs off the floor: 26,0 N

Test results:

Number of drops	Remarks
5	No defects

The test results comply with the requirements in clause 4.5.2 of standard EN 16139:2025, level 1

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# TEST REPORT

**396900 / 14**

Revision: 0  
Date of sample receipt: 28/07/25  
Date of test: 28/08/25  
Date of issue: 29/09/25



Sample name: SHELL-U armchair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
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TR - TURKEY

## Arm rest impact test EN 1728:2012+AC:2013

Test performed according to the test method EN 1728:2012+AC:2013, clause 6.25 and in accordance to the test parameters of EN 16139:2025, table 1

### Test results:

Angle °	Mass of impactor kg	Number of cycles	Remarks
38	6,5	10	No defects

The test results comply with the requirements in clause 4.5.2 of standard EN 16139:2025, level 1

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## TEST REPORT

**396900 / 15**

Revision: 0  
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Date of test: 28/08/25  
Date of issue: 29/09/25



Sample name: SHELL-U armchair

SAVAS PLASTIK SAN. VE. TIC. A.S.  
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## Stability EN 1022:2023, clause 7.3

Type of chair: fixed geometry

Positioning of chair components: as specified in Table 2 of EN 1022:2023

Loads and masses according to table B1 of EN 1022:2023, annex B

### Forwards overturning

Forwards overturning, clause 7.3.1	:	20 N	does not overturn
Forwards overturning for seating with foot rest, clause 7.3.2	:	/	
Corner stability, clause 7.3.3	:	/	

### Sideways overturning

Sideways overturning, all seating without arm rests, clause 7.3.4	:	/	
Seating with arm rests, clause 7.3.5.2	:	20 N	does not overturn
Seating with raised side edges, clause 7.3.5.3	:	/	

### Rearwards overturning

Rearwards overturning all seating with back rests, clause 7.3.6			
Minimum force required: 168 N	:	168 N	does not overturn

Tilting seating, clause 7.4.2	:	/	
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Reclining seating with leg rest, clause 7.4.3	:	/	
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Reclining seating without leg rest, clause 7.4.4	:	/	
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Rearwards stability test for rocking chairs, clause 7.4.5	:	/	
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The test results comply with the requirements in clause 4.4 of standard EN 16139:2025

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