

Report ID: 378204
Date of sample receipt: 18/09/24
Date of issue: 27/09/24

ISILPLAST PLASTIK SAN. VE TIC. A.S. (SIESTA
EXCL.)
ULUS MAH. CATALCA YOLU CAD. NO: 597
34537 TEPECİK, BUYUKCEKMECE-ISTANBUL
TR - TURKEY

Sample name: HELEN FOLDING CHAIR

SAMPLE N° 378204

Overall dimensions: 470 x 420 x 730 (h) mm

List of test reports:

1. Outdoor furniture - General safety requirements EN 581-1:2017
2. Seat and back static load test and seat front edge static load test EN 1728:2012+AC:2013
3. Seat and back fatigue test EN 1728:2012+AC:2013
4. Leg forward static load test EN 1728:2012+AC:2013
5. Leg sideways static load test EN 1728:2012+AC:2013
6. Seat impact test EN 1728:2012+AC:2013
7. Stability - EN 1022:2005
8. Stability EN 1022:2023, clause 7.3



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*The managing director
Dr. Franco Bulian*

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SAMPLE N° 378204

Date of issue: 27/09/24
Sample weight: Not determined
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Side view



Rear view



Bottom view

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TEST REPORT

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Outdoor furniture - General safety requirements EN 581-1:2017

5.1 General:

Requirement	Observed	Remarks
Edges of seat, back rest and arm rests rounded and chamfered	Yes	None
All other parts: free from burrs, sharp edges and sharp points.	Yes	None
Movable and adjustable parts designed so that injuries and inadvertent operation are avoided	Yes	None
Any load bearing part of furniture not come loose unintentionally	Yes	None
Lubricated parts are protected	Not present	None

5.2 Tubular components:

Requirement	Observed	Remarks
Absence of tubular components with diameter > 7 mm and < 12 mm with a depth > 10 mm.	Not present	None
Tubulars in contact with the floor are closed. Holes in them are allowed as long as they are < 7 mm or > 12 mm	Not present	None

5.3 Shear and squeeze points:

Requirement	Observed	Remarks
Shear and squeeze points that are created only during adjusting and folding away are acceptable if the user has the control of his/her movements.	Yes	None
Absence of shear and squeeze points, created by parts operated by powered mechanism.	Not applicable	None
Absence of shear and squeeze points, created by loads applied during normal use.	Yes	None

Conformity to requirements of clause 5 of standard EN 581-1:2017:

YES

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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 581-2:2015+AC:2016, table 2

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

Risultati della prova:

Seat load N	Back force N	Number of cycles	Remarks
1.600	410	10 x 10 s	No defects
1.600	410	1 x 30 min	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 7.2.2 of standard EN 581-2:2015+AC:2016 domestic level

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Date of test: 23/09/24
Date of issue: 27/09/24



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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 581-2:2015+AC:2016, table 2

Test results:

Seat load N	Back force N	Number of cycles	Remarks
1.100	300	25.000	No defects

Note:

In order to avoid tipping, the applied back force according to clause 6.2.1 of EN 1728:2012+AC:2013, has been reduced from 333 N to 300 N and the seat force has been increased from 1000 N to 1100 N. The minimum back force required is 300 N.

The test results comply with the requirements in clause 7.2.2 of standard EN 581-2:2015+AC:2016 domestic level

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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 581-2:2015+AC:2016, table 2

Test results:

Forward horizontal force N	Balancing seat force N	Number of cycles	Remarks
300	1.000	10	No defects

The test results comply with the requirements in clause 7.2.2 of standard EN 581-2:2015+AC:2016 domestic level

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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 581-2:2015+AC:2016, table 2

Test results:

Sideways horizontal force N	Balancing seat force N	Number of cycles	Remarks
230	1.000	10	No defects

Note:

According to EN 1728:2012+AC:2013, horizontal force has been reduced from 300 N to 230 N, to avoid tipping.

The test results comply with the requirements in clause 7.2.2 of standard EN 581-2:2015+AC:2016 domestic level

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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 581-2:2015+AC:2016, table 2

Test results:

Mass of impactor kg	Height of drop mm	Impact point	Number of drops	Remarks
25	180	seat loading point (A)	10	No defects
25	180	on the longitudinal axis, 100 mm from the front seat edge	10	No defects

The test results comply with the requirements in clause 7.2.2 of standard EN 581-2:2015+AC:2016 domestic level

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Stability - EN 1022:2005

Type of chair: fixed geometry

Minimum horizontal force for rearwards overturning of fixed back chair: 165 N

Forwards overturning

Horizontal force : 20 N does not overturn

Rearwards overturning

Fixed back chair

Horizontal force : 165 N does not overturn

Tilting chair in the rearmost position

Loading discs on the seat : /

Sideways overturning for chairs with arms

Horizontal force : /

Sideways overturning for chairs without arms

Horizontal force : 20 N does not overturn

Forwards overturning for chairs with footrest

Horizontal force : /

The test result complies with the requirements of EN 1022:2005

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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 : does not overturn

Sideways overturning

Sideways overturning, all seating without arm rests, clause 7.3.4 : 20 N does not overturn

Seating with arm rests, clause 7.3.5.2 : /

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: 165 N : 165 N does not overturn

Tilting seating, clause 7.4.2 : /

Reclining seating with leg rest, clause 7.4.3 : /

Reclining seating without leg rest, clause 7.4.4 : /

Rearwards stability test for rocking chairs, clause 7.4.5 : /

The test results comply with the requirements in clause 7.2 of standard EN 1022:2023

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