

Date received: 03/08/20

Date of issue: 13/08/20

Report consists of 7 test reports.

Defects before testing: None

Sample name: MARCEL chair

ISILPLAST PLASTIK SAN. VE TIC. A.S. (SIESTA EXCL.)

ULUS MAH. CATALCA YOLU CAD. NO: 597
34537 TEPECİK, BUYUKCEKMECE-İSTANBUL
TR - TURKEY

SAMPLE N° 294903

Overall dimensions: 440 x 530 x 850 (h) mm

List of test reports:

1. Outdoor furniture - General safety requirements EN 581-1:2017
2. Seat and back 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 1022:2018, clause 7.3



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*Managing Director
Dr. Andrea Giavon*

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SAMPLE N° 294903

Date of issue: 13/08/20
Sample weight: Not determined
Sample name: MARCEL chair



Side view



Rear view



Bottom view

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TEST REPORT

294903 / 1

Revision: 0
Date received: 03/08/20
Date of test: 06/08/20
Date of issue: 13/08/20



Sample name: MARCEL chair

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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	Not present	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.	Yes	None
Tubulars in contact with the floor are closed. Holes in them are allowed as long as they are < 7 mm or > 12 mm	Yes	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.	Not present	None
Absence of shear and squeeze points, created by parts operated by powered mechanism.	Not present	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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TEST REPORT

294903 / 2

Revision: 0
Date received: 03/08/20
Date of test: 10/08/20
Date of issue: 13/08/20



Sample name: MARCEL chair

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

Test performed according to EN 581-2:2015

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	360	10 x 10 s	No defects
1.800	360	1 x 30 min	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 410 N to 360 N and the seat force has been increased from 1600 N to 1800 N for the cycle of 30 min. The minimum back force required is 360 N.

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

Note:

The test results comply with the requirements in clause 7.2.2 a), b), c) and d) of EN 581-2:2015, domestic level.

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TEST REPORT

294903 / 3

Revision: 0
Date received: 03/08/20
Date of test: 11/08/20
Date of issue: 13/08/20



Sample name: MARCEL chair

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Seat and back fatigue test EN 1728:2012+AC:2013

Test performed according to EN 581-2:2015

Seat and back fatigue test, clause 6.17, EN 1728:2012+AC:2013

Test results:

Seat force N	Back force N	Number of cycles	Remarks
1.000	250	25.000	No defects

Note:

According to EN 1728:2012+AC:2013, back force has been reduced from 333 N to 250 N to avoid tipping.

The test results comply with the requirements in clause 7.2.2 a), b), c) and d) of EN 581-2:2015, domestic level.

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TEST REPORT

294903 / 4

Revision: 0
Date received: 03/08/20
Date of test: 12/08/20
Date of issue: 13/08/20



Sample name: MARCEL chair

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

Test performed according to EN 581-2:2015

Leg forward static load test clause 6.15, EN 1728:2012+AC:2013

Test results:

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

Note:

The test results comply with the requirements in clause 7.2.2 a), b), c) and d) of EN 581-2:2015, domestic level.

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TEST REPORT

294903 / 5

Revision: 0
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Date of test: 12/08/20
Date of issue: 13/08/20



Sample name: MARCEL chair

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

Test performed according to EN 581-2:2015

Leg sideways static load test clause 6.16, EN 1728:2012+AC:2013

Test results:

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

Note:

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TEST REPORT

294903 / 6

Revision: 0
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Sample name: MARCEL chair

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Seat impact test EN 1728:2012+AC:2013

Test performed according to EN 581-2:2015

Seat impact test clause 6.24, EN 1728:2012+AC:2013

Test results:

Mass of impactor kg	Height of drop mm	Impact point	Number of drops	Remarks
25	180	point A	10	No defects
25	180	100 mm from the front seat edge	10	No defects

Note:

The test results comply with the requirements in clause 7.2.2 a), b), c) and d) of EN 581-2:2015, domestic level.

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TEST REPORT

294903 / 7

Revision: 0
Date received: 03/08/20
Date of test: 12/08/20
Date of issue: 13/08/20



Sample name: MARCEL chair

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Stability EN 1022:2018, clause 7.3

Type of chair: fixed geometry

Positioning of chair components: as specified in Table 1 of EN 1022:2018

Loads and masses according to table B1 of EN 1022:2018, annex B

Forwards overturning

Forwards overturning, clause 7.3.1 : 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 : 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: 159 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 EN 1022:2018.

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