

Fraunhofer

TESTED[®] DEVICE

Bürositzmöbelfabrik F.-W. Dauphin IS2087ESC ST 044033 S85CR

Report No. DA 1905-1117

Statement of Qualification

Single product **Electrical Resistance**





Statement of Qualification • Single product

Bürositzmöbelfabrik F.-W. Dauphin Customer

> Espanstrasse 29 91238 Offenhausen

Germany

Component tested

Working Place and Operator Category:

Chairs Subcategory

Product name: IS2087ESC ST 044033 S85CR

> (manufacturing date: 3/2019; color: 033 black; article number: 2087_ESD 000127253 BAND 4 2028; collection back/seat: 044; seat height/gas

spring: S85CR; footring: ZF00; rollers/gliders: R10HGSL)

Electrical resistance measurements at representative points (resistance to groundable point (R_{oo}))

Standards/Guidelines:

Test devices:

Test environment parameters:

Test procedure parameters:

DIN EN 61340-2-3. -5-1

The norms stated generally refer to the version valid at the time of the tests.

- Data acquisition: Tera-Ohm-Meter TO-3H.-P. Fischer Elektronik GmbH & Co. KG (Mittenwalde)
- 2 Measuring probes:
- Typ:......Model 860, ME 2,5kg, Ø 63,5mm, DIN IEC 61340-2-3, -4-1
- Backrest electrode:
-Wolfgang Warmbier GmbH Co. KG
- Airflow pattern:.....vertical laminar flow

- Counter electrode:

– Material:	stainless steel plate
– Dimensions:	500 mm x 500 mm (±2 mm)
– Thickness:	1 2 mm (+0 1 mm)

- Insulating base:
- planar PTFE-sheet with $R > 10^{14} \Omega$ - Type:



Test result/Classification

The chair IS2087ESC ST 044033 S85CR was tested according to DIN EN 61340-2-3 for resistance to groundable point (R_{op}).

The measurement result lies below the required limit value of 1 x $10^9 \Omega$ according to DIN EN 61340-5-1 for ESD protection elements.

Measuring point	Operating voltage [V]	Average value resistance to groundable point $(\mathbf{R}_{\mathrm{gp}})$	Compliance with limit value as per DIN EN 61340-5-1
Backrest	10	4.0 x 10 ⁵	fulfilled*
Seat point 1	100	1.5 x 10 ⁷	fulfilled*
Seat point 2	100	2.5 x 10 ⁶	fulfilled*
Seat point 3	100	2.4 x 10 ⁶	fulfilled*

*In situations where it is important to consider whether the Charged Device Model (CDM) could cause damage, the lower limit value for ESD protective components should be above > $10^4 \, \Omega$.

The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

Department of Ultraclean Technology and Micromanufacturing

Nobelstrasse 12 70569 Stuttgart Germany

DA 1905-1117

Stuttgart, July 6, 2019 Place, date of first document issued

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under

www.tested-device.com.