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DEVICE

F.-W. Dauphin GmbH & Co.
IS20760 166481 0426
Report No. DA 1508-778

DUPLICATE

Statement of
Qualification

Particle Emission

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Statement of Qualification

Customer

Bürositzmöbelfabrik Friedrich-W. Dauphin GmbH & Co.
Espanstraße 29
91249 Offenhausen
Germany

Component tested

Category: Working Place and Operator

Subcategory: Chairs

Product name: Chair IS20760 166481 0426
(manufacturing date 14/8/2015; color: black – 0426)

Random sampling of particle emissions (airborne) at representative sites

Standards/Guidelines: VDI 2083-9.1; ISO 14644-1
The norms stated refer to the relevant editions applicable at the time of the tests.

Test devices: Optical particle counter:
LasAir II 110 with measuring ranges ≥ 0.1 µm, ≥ 0.2 µm, ≥ 0.3 µm, ≥ 0.5 µm, ≥ 1.0 µm and ≥ 5.0 µm

Test environment parameters:

- Cleanroom Air Cleanliness Class (according to ISO 14644-1): ..... ISO 1
- Airflow velocity: ..... 0.45 m/s
- Airflow pattern: ..... vertical laminar flow
- Temperature: ..... 22 °C ± 0.5 °C
- Relative humidity: ..... 45 % ± 5 %

Test procedure parameters:

- Type of stress applied: ..... pulsating vertical force
- Location of stress impact: ..... midpoint of the seat/backrest
- Seat:
  - Force: ..... F = 1200 N
  - Cycles: 12/min
- Backrest:
  - Force: ..... F = 350 N
  - Cycles: 12/min

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Test result / Classification

Under the specified test conditions the chair IS20760 166481 0426 is suitable for use in cleanrooms fulfilling the specifications of Air Cleanliness Class 5 in accordance with ISO 14644-1.

Parameter	Air Cleanliness Class
Seat (F = 1200 N; 12/min)	4
Backrest (F = 350 N; 12/min)	5
Overall result	**5**

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.

For further information about the test environment and parameters, please refer to the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

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Stuttgart, September 7, 2015
Place, date of first document issued

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Place, current date

on behalf of
Frank Bürger, Project Manager Fraunhofer IPA

This document only applies to the named product in an unchanged state and is valid from the date of issue for a period of 5 years. The document can be verified under **www.tested-device.com**.

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