

Fraunhofer

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MOGUL TEXTILE Madaline Cleanroom **Report No. MO 2301-1382**

Statement of Qualification

Single product

Particle Emission





Statement of Qualification • Single product

Customer MOGUL TEKSTİL San. ee Tic. A.Ş.

11. Sokak

39780 Lüleburgaz/Kırklareli

Turkey

Component tested

Category: Materials

Subcategory: Consumables

Product name: Madaline Microfilament Cleanroom Wipe

(manufacturing date: 11/3/2022; color: white; charge number: 1006055; serial number: 10000285; material: 70 % Polyester/30 % Polyamid)

Random sampling of particle emissions (airborne)

Standards/Guidelines: ISO 14644-1, -14; VDI 2083 Part 9.2, Part 9.1 (without 24-hour running-in period)
The norms stated generally refer to the version valid at the time of the tests.

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Test devices: Optical particle counter:

LasAir II 110 with measuring ranges \geq 0.1 μ m, \geq 0.2 μ m, \geq 0.3 μ m, \geq 0.5 μ m,

 \geq 1.0 μ m and \geq 5.0 μ m

Test procedure parameters: Test bench according to ISO 9073-10:

• Motion cycle:

Linear compression s: 120 mmTorsion: 180°

• Cycle time t:1s

Test result/Classification

When operated in a dry state using the given test parameters, the Madaline Microfilament Cleanroom Wipe is suitable for use in cleanrooms up to the following Air Cleanliness Class according to ISO 14644-1:

Test parameter(s)	Air Cleanlines Class
Linear compression = 120 mm Torsion = 180° Cycle time t = 1s	4
Overall result	

This corresponds with ISO-ACP, Class 4 according to VDI 2083 Part 9.2.

Please note: Transport damages, incorrect installation, aging behavior etc. can influence the test result.

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 MO 2301-1382

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on behalf of Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA

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.

