

Fraunhofer

TESTED® DEVICE

Coroplast
Coroflex Cleanroom 2000
Report No. CO 1509-784

Statement of Qualification

Antibacterial Activity





Statement of Qualification

Customer Coroplast Fritz Müller GmbH & Co. KG

> Wittener Strasse 271 42279 Wuppertal Germany

Component tested

Materials Category:

Subcategory: **Plastics**

Coroflex Cleanroom 2000 Product name: (manufacturing date: 8/2015; color: black; serial number: 29-2000)

Assessment of antibacterial activity

Standards/Guidelines:

Test environment parameters:

Test procedure parameters:

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

Microbiological laboratory: S2

- defined volume of nutrient broth of E. coli
- defined volume of nutrient broth of *S. aureus*
- After a period of 24 hours at an incubation temperature of 35 °C, the bacteria are transferred from the Agar plates to create a dilution series. Once the liquid cultures have been incubated, the analysis is carried out by counting the colony-forming units (CFU).

Test result/Classification

When tested using the specified suspension of bacteria, the cable sheathing material Coroflex Cleanroom 2000 obtained the following test result according to ISO 22196:

Antibacterial activity	Reduction factor [R]	Classification
E. coli	>4.3	excellent
S. aureus	>3.9	excellent
Overall result	>3.9	excellent

The classification is based on a worst-case scenario of the two bacterial strains used, E. coli and S. aureus. The reduction factor R is transferred to the following classification:

 \geq 3.5 = excellent < 2.0 = weak< 3.5 = very good< 1.0 = very weak< 3.0 = good< 0.2 = none

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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Place, date of first document issued

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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