

Fraunhofer

TESTED® DEVICE

Coroplast
Coroflex Cleanroom 2000
Report No. CO 1509-784

Statement of Qualification

Biological Resistance





Statement of Qualification

Customer Coroplast Fritz Müller GmbH & Co. KG

Wittener Strasse 271 42279 Wuppertal Germany

Component tested

Category: Materials

Subcategory: Plastics

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

Biological resistance test

Standards/Guidelines:

Test environment parameters:

Test procedure parameters:

ISO 846; VDI 2083-18

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

Microbiological laboratory:

- Fungus test (Procedure A) using spore suspension containing:
- Aspergillus niger
- Gliocladium virens
- Penicillium funiculosum
- Chaetomium globosum
- Paecilomyces variotii

Fraunhofer

- Bacteria test (Procedure C) using bacteria suspension containing *Pseudomonas aeruginosa*
- Incubation at 24 °C (Procedure A) respectively 29 °C (Procedure C) and 95 % relative humidity; visual analysis after four (4) weeks

Test result/Classification

The biological resistance of the cable sheathing material Coroflex Cleanroom 2000 with regard to growth intensity was investigated in accordance with ISO 846 and classified with the following result:

Biological resistance	Growth intensity	Classification
Fungi (Procedure A)	2	good
Bacteria (Procedure C)	0	excellent
Overall result	2	good

The classification is based on a worst-case consideration of Procedures A and C. In the process, growth intensity was assessed according to the classification system used in ISO 846:

0 =excellent 3 =weak 1 =very good 4 =very weak 2 =good 5 =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

Department of Ultraclean Technology and Micromanufacturing

Nobelstrasse 12 70569 Stuttgart Germany Stuttgart, March 20, 2016

Place, date of first document issued

21----------

on behalf of DR

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.

