





Fraunhofer TESTED® DEVICE Coroplast Coroflex Cleanroom 2000 Report No. CO 1509-784

Statement of Qualification

Riboflavin Test

Statement of Qualification

Customer

Category:

Subcategory

Product name:

Coroplast Fritz Müller GmbH & Co. KG Wittener Strasse 271 42279 Wuppertal Germany

Coroflex Cleanroom 2000; 3 x 0.34 mm²

external diameter: 4.3 mm)

Test result/Classification

The examination of cleanability of the cable system Coroflex Cleanroom 2000; 3 x 0.34 mm² was investigated according to VDMA information test sheet. The following test result could be provided:



Residual fluorescence has been classified on the basis of a worst-case consideration. In the process, the following assessment was made according to the classification system used in VDMA information sheet:

0 = excellent1 = very good

2 = good

Cleanability test (riboflavin test)

Standards/Guidelines:

Component tested

Test environment parameters:

Test procedure parameters:

VDMA information sheet »Riboflavin test for low-germ or sterile process technologies - Fluorescence test for examination of cleanability«. The norms stated generally refer to the version valid at the time of the tests.

(manufacturing date: 8/2015; color: black; serial number: 29-2000;

Laboratory

Energy Supply

Cable Systems

Test solution:	0.2 g riboflavin, 5 g hydroxethylcellulose
	in 1000 ml ultrapure water
Application of test solution:	pump spray
Drying time:	approx. 2-3h
Cleaning accessories:	cleanroom wipes
Cleaning medium:	ultrapure water
Number of wiping cycles:	
Number of repeat tests:	
• UV light:	$\ldots \lambda = 366 \text{nm}$

Cleanability can only be assessed qualitatively and is assessed based on the amount and size of defects occuring.

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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Department of Ultraclean Technology and Micromanufacturing

Nobelstrasse 12 70569 Stuttgart Germany

Place, current date

on behalf of Ron Frank Bürger, Project Manager Fraunhofer IPA



Classification	
0 = excellent	
Overall result: excellent	

3 = weak 4 = very weak5 = none

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.