



Fraunhofer

**TESTED[®]
DEVICE**

Coroplast
Coroflex Cleanroom 2100
Report No. CO 1509-784

DUPLICATE

Statement of
Qualification

Riboflavin Test

Statement of Qualification

Customer

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

Component tested

Category: Energy Supply
Subcategory: Cable Systems
Product name: Coroflex Cleanroom 2100; 3 x 0.34 mm²
(manufacturing date: 8/2015; color: black; serial number: 29-2100;
external diameter: 4.3 mm)

Cleanability test (riboflavin test)

Standards/Guidelines: 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.

Test environment parameters: Laboratory

Test procedure parameters:

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

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

Test result / Classification

The examination of cleanability of the cable system Coroflex Cleanroom 2100; 3 x 0.34 mm² was investigated according to VDMA information test sheet. The following test result could be provided:

Classification
0 = excellent
Overall result: excellent

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 = 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.

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on behalf of 
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