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Aschaffenburg, 11 July 2022

Bie-schu

Authorized by: Dr. Biester

REPORT

Order No.:

14572/43

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3 pages

Client:

Hermann Otto GmbH

Krankenhausstraße 14

83413 Fridolfing

Germany

Date of order:

10 March 2022

Receipt of sample material:

11 May 2022

Origin of sample material:

From the client

Purpose:

Examination

of а

sealant according to

DIN EN ISO 846:2020-11, procedure A and C

Managing Director

r. Derra)

(Dr. Biester)

Dipl.-Biologist Microbiology - Head of Department -

Deutsche

Akkreditierungsstelle D-PL-14160-01-01 D-PL-14160-01-02

The present report exclusively refers to the samples mentioned. It meets the requirements of the DIN EN ISO/IEC 17025:2018 for simplified test reports. Additional information and statistical data on the results are available upon request.

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Order No.: 14572/43

Sample Material

For analysis test pieces of a cured sealant with the following designation were at hand:

Sample 1:

OTTOSEAL ® S 67, RAL 9010, Lot 20703501

Carrying out of the Tests

Examination period:

11 May 2022 to 08 August 2022

1. Resistance against Moulds (Growth test)

The examination was carried out according to DIN EN ISO 846:2020-11*, procedure A, including a visual and microscopic examination. The examination was carried out as a fivefold determination.

Test specimen:

Dimensions:

5 cm x 5 cm

Deviations from the standard:

none

Cleaning before the examination:

70 % ethanol

Test germs:

Aspergillus niger	(DSM 1957)
Penicillium pinophilum	(DSM 1944)
Paecilomyces variotii	(DSM 1961)
Trichoderma virens	(DSM 1963)
Chaetomium globosum	(DSM 1962)

Incubation conditions:

4 weeks at 29 ± 1 °C

Evaluation of the mould growth:

U	no growth visible under microscopic inspec	tion
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- 1a no growth visible with the naked eye, but growth clearly visible under the microscope, up to 25 % of the sample surface overgrown
- 1b no growth visible with the naked eye, but growth clearly visible under the microscope, up to 50 % of the sample surface overgrown
- no growth visible with the naked eye, but growth clearly visible under the microscope, 1c more than 50 % of the sample surface overgrown
- 2 growth visible with the naked eye, up to 25 % of the sample surface overgrown
- 3 growth visible with the naked eye, up to 50 % of the sample surface overgrown
- 4 considerable growth, more than 50 % of the sample surface overgrown
- 5 strong growth, whole sample surface overgrown

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Results:

Individual evaluation of the test specimen: 5 x growth intensity 0

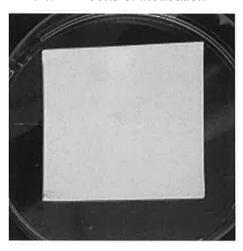
Overall evaluation of the sample:

growth intensity 0

Further observations:

none

after 4 weeks of incubation



2. Resistance against Bacteria

The examination was carried out according to DIN EN ISO 846:2020-11*, procedure C, including a visual and microscopic examination. The examination was carried out as a fivefold determination. The evaluation was carried out by looking at the bacterial growth in the mineral salt agar surrounding the test specimen.

Test specimen:

Dimensions:

5 cm x 5 cm

none

Deviations from the standard:

Cleaning before the examination:

70 % ethanol

Test germ:

Pseudomonas aeruginosa (DSM 1253)

Incubation conditions:

4 weeks at 29 ± 1 °C

Results:

Individual evaluation of the test specimen: 5 x increased growth

Overall evaluation of the sample:

increased growth

Further observations:

none

The accreditation applies to the methods marked with * in the test report (Register no. D-PL-14160-01-01). End of report