Entwicklungs- und Prüflabor Holztechnologie GmbH · Zellescher Weg 24 · 01217 Dresden · Germany

Dr. Schutz GmbH
Ms. Bettina Schaar
Steinbrinksweg 30
31840 Hessisch Oldendorf

Dresden, 07/09/2022
MPET

Test Report
Order No. 2722295

This report is a translation of the German language report no. 2722295 of 31/08/2022.

Client:	Dr.Schutz GmbH Steinbrinksweg 30 31840 Hessisch Oldendorf
Order:	Performance of the test for the determination of the colourfastness to artificial saliva and artificial sweat according to DIN 53160:2010-10, part 1 and part 2
Contractor:	EPH - Laboratory Surface Testing
Engineer in charge:	Dipl.-Ing. (FH) M. Peter

Dipl.-Ing. Andreas Möschner
Head of Laboratory Surface Testing

The test report contains 3 pages. Any duplication of extracts requires the written permission of EPH. The test results refer exclusively to the material tested.

1 Task

The accredited Entwicklungs- und Prueflabor Holztechnologie GmbH (EPH) was instructed by Dr. Schutz GmbH in Hessisch Oldendorf to carry out the test to determine the colourfastness to artificial saliva and artificial sweat according to DIN 53160:2010-10, part 1 and part 2.

2 Test material

For testing, the following samples were selected by the client and sent to the contractor with receipt at EPH laboratory on: 29/07/2022

2 samples of "Dr. Schutz Vir-O-Bac Seal" on an anthracite-coloured PVC floor covering (200 mm x 100 mm)

3 Determination of the colourfastness to artificial saliva and artificial sweat according to DIN 53160:2010-10, part 1 and part 2

The test to determine the colourfastness to artificial saliva and artificial sweat was carried out according to DIN 53160:2010-10, part 1 and part 2. For this purpose, filter paper strips (filter paper 1b DIN 53135) measuring 80 mm x 15 mm were soaked with the corresponding test solutions and attached to the surfaces to be tested. The samples were then stored in a desiccator for 2 hours at (37 ± 2) °C above water. After drying the filter paper at (37 ± 2) °C, the colour transparency of the coating was determined. For this purpose, the colour change of the filter paper of the contact area was evaluated in comparison to the filter paper without contact to the test coating by means of a grey scale according to DIN EN 20105-A03:1994-10.

Performance of the test: 30/08/2022

4 Results

Determination of the colourfastness to artificial saliva according to DIN 53160:2010-10, part 1

Colour change of the filter paper in grey scale steps according to DIN EN 20105-A03:1994-10*
5

* Statements on conformity assessment/classification were made on the basis of the measurement results obtained. Measurement uncertainties were not included in the assessment (ILAC G8 03/2009 "Guidelines on the Reporting of Compliance with Specification" Section 2.7).

Rating scale for assessing the colour change with the help of the grey scale:

Grey scale value 5	no discernible colour changes
Grey scale value 4 - 5	very slight colour changes
Grey scale value 4	slight colour changes
Grey scale value 3 - 4	noticeable colour changes
Grey scale value 3	clearly visible colour changes
Grey scale value 2 - 3	very clearly visible colour changes
Grey scale value 2	strong colour changes
Grey scale value 1	very strong colour change

Determination of the colourfastness to artificial sweat according to DIN 53160:2010-10, part 2

Colour change of the filter paper in grey scale steps according to DIN EN 20105-A03:1994-10*
5

* Statements on conformity assessment/classification were made on the basis of the measurement results obtained. Measurement uncertainties were not included in the assessment (ILAC G8 03/2009 "Guidelines on the Reporting of Compliance with Specification" Section 2.7).

Rating scale for assessing the colour change with the help of the grey scale:

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Grey scale value 2 - 3	very clearly visible colour changes
Grey scale value 2	strong colour changes
Grey scale value 1	very strong colour change

5 Evaluation

Determination of the colourfastness to artificial saliva according to DIN 53160:2010-10, part 1

In the test to determine of the colourfastness of artificial saliva according to DIN 53160:2010-10, Part 1 "Testing with artificial saliva ", no discernible colour changes were found on the tested coating "Dr. Schutz Vir-O-Bac Siegel".

Determination of the colourfastness to artificial sweat according to DIN 53160:2010-10, part 2

In the test to determine of the colourfastness of artificial sweat according to DIN 53160:2010-10, Part 1 "Testing with artificial sweat ", no discernible colour changes were found on the tested coating "Dr. Schutz Vir-O-Bac Siegel".

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Dipl.-Ing. (FH) M. Peter
Engineer in charge