

Gabriel internal test report for bleach cleanability

Test performed:	22 November 2021
Test:	BIFMA HCF 8.1-2019 Health Care Furniture design guidelines or cleanability & ACT Test Method 1-2020
Bleach concentration:	1:10 Sodium Hypochlorite 5.25 – 6.25 %
Product tested:	2316 Blend – 100% post-consumer recycled polyester

Gabriel tests all polyester fabrics, and tests include all colour options for each fabric. Tests are conducted in accordance with BIFMA's and ACT's recommended cleanability guidelines for use of cleaners, sanitisers and disinfectants on fabrics in hospitals and health care settings. The test result for each colour includes an assessment of the risk for colour change, when bleach is applied to the fabric in the concentrations required in health care environments.

When choosing a bleach-cleanable product, it is important to be aware that a variety of test methods to evaluate bleach resistance exist. Consequently, we recommend that you always ensure that the test method applied to a specific fabric meets the requirements - in terms of bleach concentration, application and contact time - for the specific context and environment in which the fabric will be used.

The test method applied by Gabriel is extremely thorough, and we consider it to be the best test available to assess and inform about the risk for colour change when using chlorine products.

Test description

1 ml of hospital grade disinfectant cleaner - diluted in accordance with the manufacturer's instructions - is applied to the centre of the test specimen. The solution is allowed to set for a period of two hours, after which any remaining liquids are blotted up (on both face and back).

The process is repeated for a total of ten times. Two hours after the 10th application, three ml of water are applied, excess fluids are blotted up with a clean white cloth, and the test specimen is allowed to air dry. The last step is repeated if chemical residue remains.

The material is evaluated by comparing the test specimen with AATCC Grey Scale for Color change.

Rating system – Grades according to AATCC Grey scale

Grade 5 – Very good-excellent

Grade 4 – Good

Grade 3 – Fair-moderate

Grade 2 – Poor behaviour

Grade 1 – Very poor

Acceptance criteria according ACT/BIFMA.

Colour Change: Grade 4 minimum

Colour Transfer: Not permitted

Physical damage: Not permitted

Fabric	Colour	Name	Risk for colour changes*	Result
Blend	01301	Black	Low	5
Blend	01101	Blue	Low	4-5
Blend	01201	Grey	Low	4-5
Blend	01401	Light Grey	Low	4-5
Blend	01601	Dark grey	Low	4-5
Blend	01701	Beige	Low	4-5
Blend	02001	Light red	Low	4-5
Blend	02201	Green	Low	4-5
Blend	02301	Green	Low	4-5
Blend	02501	Orange	Low	4-5
Blend	02701	Dark grey	Low	4-5
Blend	03101	Red	Low	4-5
Blend	03401	Dark Beige	Low	4-5
Blend	01501	Grey	Low	4
Blend	01801	Yellow brown	Low	4
Blend	01901	Brown	Low	4
Blend	02101	Light red	Low	4
Blend	02401	Turquoise	Low	4
Blend	02601	Red brown	Low	4
Blend	02801	Red	Low	4
Blend	02901	Yellow	Low	4
Blend	03001	Dark yellow	Low	4
Blend	03201	Blue	Low	4
Blend	03301	Blue	Low	4

**) Low risk = Grade 4-5; Medium risk = Grade 3-4; High risk = Grade 3 and below*

Gabriel A/S confirms that the above results were obtained after testing the specimen in accordance with the procedures and equipment specified above.

Gabriel A/S



Kurt Nedergaard
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