Gabriel internal test report for bleach cleanability

Test performed:	21 Aug. 2023
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:	Step Melange – 100% Trevira CS

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, sanitizers 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 center 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
2543	60345	Light Grey	Low	4-5
2543	60346	Light Grey	Low	4-5
2543	61286	Light Brown	Low	4-5
2543	61287	Light Beige	Low	4-5
2543	63137	Red Orange	Low	4-5
2543	68301	Yellow Green	Low	4-5
2442	61291	Dark Brown	Low	4
2543	62143	Light Yellow	Low	4
2543	62144	Light Yellow	Low	4
2442	66263	Blue	Low	4
2442	66264	Dark Blue	Low	4
2543	68298	Light Green	Low	4
2543	61288	Beige	Medium	3-4
2543	63136	Light Orange	Medium	3-4
2543	63139	Light Orange	Medium	3-4
2442	66265	Dark Blue	Medium	3-4
2543	67135	Turquoise	Medium	3-4
2543	68299	Light Green	Medium	3-4
2543	61289	Beige	High	3
2543	61293	Dark Beige	High	3
2543	62146	Yellow	High	3
2543	64267	Light Red	High	3
2442	64270	Dark Red	High	3
2543	68300	Green	High	3
2543	63138	Orange	High	2

**) 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
Director of CSR & Quality