

Gabriel internal test report for bleach cleanability

Test performed:	05. Oct. 2020
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:	2441/2442 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, 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
Step Melange	61104	Beige	Low	4
Step Melange	64013	Red	Low	4
Step Melange	65011	Dark Violet	Low	4
Step Melange	67007	Turquoise	Low	4
Step Melange	68118	Light Green	Low	4
Step Melange	68157	Green	Low	4
Step Melange	68162	Green	Low	4
Step Melange	68163	Yellow Green	Low	4
Step Melange	60004	Light Grey	Medium	3-4
Step Melange	60092	Dark Grey	Medium	3-4
Step Melange	61102	Dark Brown	Medium	3-4
Step Melange	61149	Beige	Medium	3-4
Step Melange	61152	Beige	Medium	3-4
Step Melange	62073	Yellow	Medium	3-4
Step Melange	65047	Dark Purple	Medium	3-4
Step Melange	65093	Light Purple	Medium	3-4
Step Melange	66018	Light Blue	Medium	3-4
Step Melange	66148	Blue	Medium	3-4
Step Melange	66151	Blue	Medium	3-4
Step Melange	66152	Grey Blue	Medium	3-4
Step Melange	67004	Light Blue Green	Medium	3-4
Step Melange	67072	Light Turquoise	Medium	3-4
Step Melange	68120	Green	Medium	3-4
Step Melange	68121	Dark Green	Medium	3-4
Step Melange	68158	Dark Green	Medium	3-4
Step Melange	68160	Green	Medium	3-4
Step Melange	60090	Dark Grey	High	3
Step Melange	61150	Dark Brown	High	3
Step Melange	64159	Dark Orange	High	3
Step Melange	64178	Light Red	High	3
Step Melange	64179	Red	High	3
Step Melange	64181	Light Red	High	3
Step Melange	65018	Dark blue	High	3
Step Melange	65023	Purple	High	3
Step Melange	65091	Dark Violet	High	3
Step Melange	65092	Light Purple	High	3
Step Melange	66149	Blue	High	3
Step Melange	68161	Dark Green	High	3
Step Melange	68165	Yellow Green	High	3
Step Melange	61103	Dark Beige	High	2-3
Step Melange	62057	Dark Yellow	High	2-3
Step Melange	63082	Orange	High	2-3
Step Melange	65090	Violet	High	2-3
Step Melange	66019	Blue Grey	High	2-3
Step Melange	66150	Blue	High	2-3
Step Melange	68119	Green	High	2-3

Step Melange	68159	Light Green	High	2-3
Step Melange	60011	Grey	High	2
Step Melange	60021	Dark Grey	High	2
Step Melange	61151	Brown	High	2
Step Melange	63075	Orange Brown	High	2
Step Melange	64177	Light Red	High	2
Step Melange	64182	Light Red	High	2
Step Melange	65094	Purple	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
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