Gabriel internal test report for bleach cleanability

Test performed:	20 July 2022
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:	Grain 2287 – 92% post-consumer recycled polyester/ 8% polyester Grain 2288 – 80% post-consumer recycled polyester/ 20% 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, 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

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Fabric	Colour	Name	Risk for colour changes*	Result
Grain 2287	61250	Light beige	Low	4-5
Grain 2287	64041	Red	Low	4-5
Grain 2287	60300	Light grey	Low	4-5
Grain 2288	64251	Red	Low	4-5
Grain 2288	66231	Medium blue	Low	4-5
Grain 2288	66233	Dark blue	Low	4-5
Grain 2288	66235	Blue	Low	4-5
Grain 2288	60320	Light grey	Low	4-5
Grain 2287	61229	Light beige	Low	4
Grain 2287	68155	Dark green	Low	4
Grain 2287	66216	Medium blue	Low	4
Grain 2287	66232	Dark blue	Low	4
Grain 2287	60301	Medium grey	Low	4
Grain 2288	61247	Light beige	Low	4
Grain 2288	68260	Dark green	Low	4
Grain 2288	60322	Light grey	Low	4
Grain 2288	60321	Medium grey	Low	4
Grain 2288	60325	Dark grey	Low	4
Grain 2288	66237	Blue	Low	4
Grain 2288	60328	Dark grey	Low	4
Grain 2287	61252	Beige	Medium	3-4
Grain 2287	64249	Light red	Medium	3-4
Grain 2287	62122	Green yellow	Medium	3-4
Grain 2287	66234	Blue	Medium	3-4
Grain 2287	60302	Light grey	Medium	3-4
Grain 2287	60303	Medium grey	Medium	3-4
Grain 2287	60999	Black	Medium	3-4
Grain 2287	66236	Blue	Medium	3-4
Grain 2288	61248	Light brown	Medium	3-4
Grain 2288	61249	Dark brown	Medium	3-4
Grain 2288	61251	Light beige	Medium	3-4
Grain 2288	61253	Beige	Medium	3-4
Grain 2288	62121	Dark Yellow	Medium	3-4
Grain 2288	64250	Light red	Medium	3-4
Grain 2288	61254	Red brown	Medium	3-4
Grain 2288	68258	Yellow Green	Medium	3-4
Grain 2288	68259	Green	Medium	3-4
Grain 2288	60323	Medium grey	Medium	3-4
Grain 2287	61230	Light brown	High	3
Grain 2287	61146	Dark brown	High	3
Grain 2287	61037	Yellow Brown	High	3
Grain 2287	61256	Red brown	High	3
Grain 2287	63117	Orange	High	3
Grain 2287	68257	Yellow Green	High	3
Grain 2287	68243	Green	High	3
Grain 2287	60324	Dark grey	High	3

Grain 2288	61255	Yellow brown	High	3
Grain 2288	63118	Orange	High	3
Grain 2288	62123	Green Yellow	High	3
Grain 2287	62016	Dark Yellow	High	2-3

**) 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

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