

“Bravo F3938/C”, PU coated fabric

Introduction:

Due to the outbreak of Covid-19 and a temporary lack of PPE's, an important demand was observed for materials that can potentially be used as alternative protective equipment against Covid 19.

Rationale:

With a raw material supply chain that is under high pressure in Covid 19 period, Sioen Fabrics selected the following raw materials based on a sufficient current availability and their proven performance in the application field of hospital mattress covers:

- 100% pes based textile with a weight of 50 g/m2
- Coated with 70 g/m2 PU, based on a PU grade that is dominantly used in the medical mattress cover field for over 15 years

Technical properties coated textile:

- 3 layer coating
- Fully waterproof (> 2000 mm hydrostatic head according to ISO20811)
- The concerned article has not been tested, but articles from this product family (Bravo family) have been tested according to ASTM1670/1671 (Centexbel analysis report 14.04854.02)
- Articles from this product family (Bravo family) have also been tested according to ISO10993-part 10 (Wuxi-App Tec protocol nr 910699-18 + 900899-17)
- > 4 weeks hydrolysis resistance (70°C/95%RH): coating still > 2000 mm according to ISO20811
- Easily surface disinfectable with the most common types of disinfectants (see general clean and care instructions Bravo)
- Washable at 95°C

Cleaning and disinfection:

Generally spoken, these coating systems are highly resistant to most commonly used surface disinfectants like isopropanole, quaternary ammonia, hydrogen peroxide,... However, next to the temperature at which the process is performed, the concentration and total contact times determine the lifetime of these coatings.

As a standard rule, it must always be tested if the selected cleaning/disinfection protocol is suitable for this PU coated fabric.

As a guidance, dangerous interactions could occur with:

- Very acidic and very alkaline pH conditions
- (mostly polar) solvents
- Abrasive materials
- Strong oxydants

The first signs of degradation to be looked for would be:

- Loss of hydrostatic head
- Delamination between coating and textile

At Sioen laboratories, we can easily check for you the hydrostatic head after your specific cleaning protocol.