

TECHNICAL DATA SHEET - ANTIMICROBIAL FILM

Film consisting of a 60-µm, transparent, cast PVC containing antimicrobial agents and coated with a pressure-sensitive acrylic adhesive. Intended for antimicrobial protection of surfaces in areas that require a high level of hygiene (hospitals, agribusinesses and food industries, wet rooms, public places, etc.).

Active strains (according to ISO 22196):
Reducing > 99.99 % of bacteria ascertained for:

- Escherichia coli,
- Salmonella (Salmonelle enterica),
- Listeria (Listeria monocytogenes),
- Golden staph (Staphylococcus aureus),
- Methicillin-resistant Staphylococcus aureus (MRSA),
- Pseudomonas aeruginosa.

Antiviral activity on the Human coronavirus HCoV-229E strain (according to the ISO 21702 standard):

- 94.99 % after a contact time of 15 min.,
- 99.87 % after a contact time of 60 min.



FILM FEATURES:

- Thickness (µm):

Indicative value

60

- Tensile strength (N/25 mm):

Average values

min. 15

Standard

HEXNFX41031

- Elongation at break (%):

min. 100

HEXNFX41031

- Shrinkage 168 hours at 70 °C (158 °F) (mm):

< 0,8

HEXRETO01

LINER:

- Silicone-coated PE paper.
- Stable under hygrometric variations.

ADHESIVE PROPERTIES:

(Measured average values at publication of the technical data sheet)

- Peel strength test 180° on glass (N/25 mm):
after 20 minutes of application
after 24 hours of application

Average values

15

17

Standard

HEXFTM001

- Initial tack (N/25 mm):

20

HEXFTM009

- Release (N/25 mm):

0,5

HEXFTM003

- Resistance to solvents: the adhesive is resistant to most chemicals (alcohol, diluted acids, oils).

ADHESIVE:

- Solvent-based, acrylic adhesive.
- Immediate and permanent adhesion.

USER'S INSTRUCTIONS:

Under normal usage conditions, harmless when in contact with human skin (skin compatibility study carried out under dermatological control).

- ✓ No allergenic potential.
- ✓ No irritant potential.

- Active compound: Silver ions, < 0.3 % w/w of the entire product.
- Antimicrobial activity maintained after 365 cleanings with water, alcohol and chlorine bleach.
- The film can be cleaned/disinfected by all conventional cleaning methods, using non-abrasive accessories, cleaning products, detergents or products currently used in healthcare environments.

The disinfection levels achieved are compatible with common usage in the most sensitive areas in terms of infectious risks (surgery wards, immunocompromised wards, neonatology, etc.).

- Only apply the film to areas that will not be in direct contact with unpackaged food.
- Suitable for application to regular or irregular surfaces.
- Recommended minimum application temperature: +10 °C (+50 °F)
- Operating temperature range: from -40 °C to +90 °C (-40 °F to +194 °F).
- In the case of an already painted substrate, self-adhesive media must only be applied to undamaged original paintwork. If the paintwork is not original and/or damaged, the application and the removal are at the judgement and risk of the installer.

STORAGE:

- Shelf life (before application):

The shelf life of this film is 1 year when stored upright in its original packaging in a dust-free environment at a temperature ranging from +15 °C to +25 °C (+59 °F to +77 °F) with relative humidity of 50 %.

DURABILITY:

Vertical indoor exposure: up to 5 years (in areas not subject to frequent handling or high visitor frequency).

A film applied in areas of frequent handling (e.g.: handles) or high visitor frequency will be subject to repeated abrasion which will reduce its durability (change of appearance, lifting, etc.). The film durability depends on the intensity and frequency of the mechanical stress to which it is exposed.