TECHNICAL DATA SHEET - ANTIMICROBIAL FILM - PURE ZONE® RANGE - PERMANENT ADHESIVE

PURZON060M

Film consisting of a 60-µm, transparent, cast PVC containing antimicrobial agents and coated with a pressure-sensitive acrylic adhesive. Matt surface finish. 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):
The reduction of > 99.99 % of bacteria confirmed 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:

	Indicative value	
• Thickness (µm):	60	
	Average values	Standard
• Tensile strength (N/25 mm):	min. 15	HEXNFX41031
• Elongation at break (%):	min. 100	HEXNFX41031
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 0.8	HEXRET001

LINER:

- Silicone-coated PE paper with HEXIS print.
- Stable under hygrometric variations.

ADHESIVE PROPERTIES:

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

	Average values	Standard
• Peel strength test 180° on glass (N/25 mm):		HEXFTM001
after 20 minutes of application	15	
after 24 hours of application	17	
• Initial tack (N/25 mm):	21	HEXFTM009
• Release (N/25 mm):	0.4	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, chlorine bleach and Aniosurf® (respect the dilution recommended by the manufacturer).
- 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.
- Minimum recommended application temperature: +10 °C (+50 °F)
- Operating temperature range: -40 °C to +90 °C (-40 °F to +194 °F).
- It can be used for the cold-laminating of cast HEXIS digital printing films printed with solvent, eco-solvent, latex or UV inkjet technology.
- 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.

OPERATING RECOMMENDATIONS:

- Before applying this laminate to a HEXIS digital printing film, which has been printed with solvent inks, it is recommended to respect the following optimal drying time for the inks:
  - 48 hours if the printed film is cast,
  - 24 hours if the printed film is calendered.
- For more information on the application method of the PURZON060M film, please refer to the Application Guide on the "Professionals" pages, category "Laminates" on the site www.hexis-graphics.com.

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:

- The bacteria reducing properties are inherent to the film (when stored in its original packaging) and confirmed for Golden staph (Staphylococcus aureus) (Standard ISO 22196):
  - Initially: > 99.99 %
  - After 6 years: > 99.99 %
- 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.

NOTES:
Due to the great variety of substrates and the growing number of new applications, the installer must check the suitability of the medium for each application.
The measuring methods for the standards quoted above served as the basis for the development of our own measuring methods which are available on request. Please feel free to contact us to get the latest instructions in use.
All the published information is based on measurements regularly performed in the laboratory. It does not however constitute a binding guarantee. The seller cannot be held liable for indirectly related damages and assumes no liability for claims that are higher than the replacement value of the purchased product. All specifications are subject to potential changes without prior notice. Our specifications are automatically updated on our website www.hexis-graphics.com.