TECHNICAL DATA SHEET - LAMINATE - PERMANENT ADHESIVE

PCAMPGB

Film composed of a 120-µm, transparent, structured, cast PVC, which contains antimicrobial agents and is coated with a pressure-sensitive acrylic adhesive. Designed to be laminated on mass-coloured or digital printing films; it can also be directly applied to smooth 2D or moderated 3D surfaces. Intended for antimicrobial protection of areas requiring a high level of hygiene (hospitals, agribusinesses and food industries, humid 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):	120	
	Average values	Standard
• Tensile strength (N/25 mm):	min. 15	HEXNFX41031
• Elongation at break (%):	min. 50	HEXNFX41031
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 0.8	HEXRET001

LINER:

- Silicone-coated PE paper 145 g/m², with grey "THE CAST by 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	16	
after 24 hours of application	18	
• Initial tack (N/25 mm):	20	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 reinforced acrylic adhesive.
- Immediate and permanent adhesion, optimal after 24 hours of contact.
- Dry application.

USER'S INSTRUCTIONS:

- Intended for application:
    - by lamination to mass-coloured films;
    - by lamination to HEXIS digital printing films printed with solvent, eco-solvent, latex or UV inkjet technology;
    - to smooth (smooth walls, doors, glazed surfaces, etc.), slightly concave or convex and slightly undulated surfaces;

  in order to provide a small grain leather surface finish.

For concave, convex or slightly undulated surfaces, it is recommended to carry out an application test in order to make sure of the film's deformation limits.

- 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, < 0.5 % w/w of the entire product.
- Antimicrobial activity maintained after 365 cleanings with water or alcohol.
- 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 (results obtained by the Laboratoire d'Hygiène Hospitalière from the Pasteur Institute of Lille).

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.
- Recommended minimum application temperature: +10 °C (+50 °F).
- Operating temperature range: -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.

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.
- Given the strong structure of the PCAMPGB film, some bubbles may appear underneath the film during lamination. The appearance of the compound can be improved by optimising the lamination parameters:
  - Ensure maximum pressure between the lamination cylinders.
  - Set a slow lamination speed.

Advice: In all cases, read the laminating machine's instructions carefully and carry out a preliminary application trial.

- After installation, the final surface aspect can be improved by heating the film to +60 °C (+140 °F) and by applying it using a ROLLRIV foam roller.
- For more information on the application method of the PCAMPGB 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 4 years: > 99.97 %
  - After 6 years: > 99.8 %
- Vertical indoor exposure, upon substrate: up to 5 years (for surfaces or areas subject to moderate handling or visitor frequency).

A film applied to surfaces exposed to mechanical stress or high visitor frequency will be subject to repeated abrasion which will more or less rapidly reduce its lifespan (change of appearance, peeling off, etc.).