TECHNICAL DATA SHEET - LAMINATE - PERMANENT ADHESIVE

PCWOODXX

80-µm, PVC-free, clear, cast film containing antimicrobial agents and coated with a pressure-sensitive acrylic adhesive. Structured imitation wood surface finish. Indoor use only. 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):	80	
	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):	< 0.6	HEXRET001

LINER:

- Silicone-coated PE paper 145 g/m² with light 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	18	
after 24 hours of application	23	
• Initial tack (N/25 mm):	26	HEXFTM009
• Release: (N/25 mm):	0.3	HEXFTM003

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

ADHESIVE:

- Solvent-based, acrylic adhesive.
- Immediate and permanent adhesion after 24 hours of contact.
- Dry application.

USER'S INSTRUCTIONS:

- Intended for application to:
    - plotter vinyls: only apply the PCWOODXX film to unstructured films using a cold laminator or via direct application. The complex can be cut using a plotter. After cutting, it is possible to transfer with the HEX860 tape.
    - digital printing films: apply the PCWOODXX film to solvent, eco-solvent, latex or UV inkjet printed films only.
    - any other type of substrate: only apply to a surface in good condition or properly prepared.

      Due to the wide variety of existing substrates, the application of vinyl to an unsuitable and/or not adequately prepared surface or laminate may result in media lifting from the substrate or damage to the substrate when the film is withdrawn. The application and removal of the vinyl are at the judgement and risk of the installer. HEXIS will not, under any circumstances, be liable for any damages or deteriorations caused by the installation or removal of a vinyl film.
- 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.
- 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.
- 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 PCWOODXX 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: up to 5 years (for surfaces or areas subject to moderate handling or visitor frequency).

A film applied to surfaces exposed to frequent mechanical stress will be subject to repeated abrasion that will reduce more or less rapidly its lifespan (change of the film's and/or the complex's appearance, peeling off, etc.).