PURZONORIB – PURZONORIM (PURZON060B and PURZON060M before 01/02/21)

TRANSPARENT · SOLV · ÉCO-S · LATEX · UV

PRODUCT DESCRIPTION:

Film consisting of a 60-µm, transparent, cast PVC containing antimicrobial agents and coated with a pressure-sensitive acrylic adhesive. This film is intended for the protection of surfaces against these types of stress: physical (scratches, deformations, glass breakage), optical (reduces the effects of light on the substrates, or even the oxidation of the substrates) and chemical (creates a physical barrier on the surface of the item by limiting the contact with liquids). Due to its pressure-sensitive adhesive, this film can be used as a temporary protection and can be removed without damaging the substrate. Glossy (PURZONORIB) or matt (PURZONORIM) surface finish.

The antimicrobial properties of this treated article that incorporates a biocidal product allow for the protection of surfaces against microbes in areas that require a high level of hygiene (hospitals, agribusinesses and food industries, wet rooms, public places, etc.).

FILM FEATURES:

· Thickness	(Indicative value) **60 µm**	
· Tensile strength	(Average values) **min. 15 N/25 mm**	Method **HEXNFX41021**
· Elongation at break	(Average values) **min. 100 %**	Method **HEXNFX41021**
· Shrinkage 168 hours at 70 °C (158 °F)	(Average values) **< 0.8 mm**	Method **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)

- Peel strength test at 180°; Measurement support glass

after 20 minutes of application	(Average values) **15 N/25 mm**	Method **HEXFTM001**
after 24 hours of application	(Average values) **17 N/25 mm**	Method **HEXFTM001**
· Initial tack	(Average values) **20 N/25 mm**	Method **HEXFTM009**
· Release	(Average values) **0.5 N/25 mm**	Method **HEXFTM003**

- The adhesive is resistant to most chemicals (alcohol, diluted acids, oils).

ADHESIVE:

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

USER'S INSTRUCTIONS:

- Recommended minimum application temperature: +10 °C (+50 °F)
- Operating temperature range: -40 °C to +90 °C (-40 °F to +194 °F)

- Under normal usage conditions harmless when in contact with human skin (skin compatibility study carried out under dermatological control: report Biophyderm no. 832/0914-2302).
- 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® (report Intertek no. 2014-CHL-R14-0902/1013).

With regard to the cleaning products, 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.).

The film is resistant to more than 3 000 cycles of wet abrasion with a non-abrasive sponge (ISO 11998).

- Only apply the film to areas that will not be in direct contact with unpackaged food.
- Compatible with an application to regular or irregular surfaces.
- It can be used as a cold laminate on cast HEXIS digital printing films, compatible 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 PURZONORIB – PURZONORIMB films, please refer to the Application Guide on our site www.hexis-graphics.com/en/supports/application-guides.

STORAGE:

Storage period before use
1 year

Storage area
in a dust-free environment

Storage temperature
+15 °C to +25 °C (+59 °F to +77 °F)

Storage method before use
in its original packaging

Relative humidity during storage
with relative humidity of 50 %

Orientation of rolls before use
vertically

DURABILITY:

Indoor use:

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

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 %

Outdoor use:

- Resistance to yellowing in vertical outdoor exposure: up to 4 years.
- The bacteria-reducing properties are inherent to the film:
  after 6 months of outdoor exposure (Southern 45°): > 99.9 % (report Eurofins STUYHA21AA0065); confirmed for Golden Staph (*Staphylococcus aureus)* (Standard ISO 22196).

A film applied in areas of frequent handling (e.g.: handles) or high visitor frequency will be subject to repeated abrasion that 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.

CERTIFICATION:

Fire-smoke classification

B-s1, d0

Fire-smoke classification standard
French standard for fire behaviour

Fire-smoke classification protocol no.
EFR-20-001938

Reach compliance

The PURZONORIB and PURZONORIM films comply with the Biocidal Products Regulation (BPR) and ECHA's list of SVHC (Substances of very high concern).
The films contain a biocide (silver phosphate glass) that complies with the REACH Directive. This active ingredient is registered in the BPR list under the CAS number: 308069-39-8.
The films do not contain any ingredient described in the SVHC list.

ANTIMICROBIAL activity - PURE ZONE TECHNOLOGY

Antiviral activity on the coronavirus strain SARS-CoV-2 (according to the ISO 21702 standard) (report VirHealth no. R2103FSHEX001):
90 % after a contact time of 60 min.

Antiviral activity on the Human coronavirus strain HCoV-229E (according to the ISO 21702 standard) (report VirHealth no. R2007HEX001-2) :
94.99 % after a contact time of 15 min.
99.87 % after a contact time of 60 min.

The reduction of > 99.99 % of bacteria (according to ISO 22196) confirmed for the active strains of (report Intertek CHL-R14-0815 / CHL-R16-1301):
Escherichia coli,
Salmonella (*Salmonelle enterica***),**
Listeria (*Listeria monocytogene***s),**
Golden staph (*Staphylococcus aureus***),**
Methicillin-resistant **Staphylococcus aureus (MRSA),**
*Pseudomonas aeruginosa***.**

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 of the published information is based on measurements regularly performed in the laboratory. The published information 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.