

## Biond Bio-Protection Film P HT 70

Overlamination from the Biond range that offers a 70 micron biobased film, a high performance high tack permanent ultracrystalline clear UV acrylic adhesive and a glassine liner.

### Face Film

Bio-based Film with > 80% bio-components

Finish	Clear Glossy	Clear Matte		
	Valor		Tolerance	Standard
Thickness (µm)	70	70	± 5%	Digidelta Test Method
Grammage (g/m2)	75	75	± 10%	Digidelta Test Method
Gloss (60°C) (%)	≥ 90	≤ 10	± 10 %	Digidelta Test Method
Bio-based content (%)	97	94		EN 16640:2017/ASTM D6866
Tensile strenght (MPa)	> 30	> 30		ASTM D412
Elongation (%)	> 250	> 250		ASTM D412
Modulus (MPa)	24	24		ASTM D412
Flammability (FR)	A2-S1, d0	A2-S1, d0		ISO 13501-1/ISO 11925-2
Expected durability	Up to 5 years outdoor/ 10 years indoor	Up to 5 years outdoor/ 10 years indoor		

### Adhesive

Clear UV acrylic based, permanent high tack adhesive

	Value	Standard
Peel Adhesion 20 min steel (N/25mm)	> 14	FINAT FTMI
Peel Adhesion 24 h steel (N/25mm)	> 18	FINAT FTMI
Shrinkage (mm)	Max. 0,1	FINAT FTMI4
Application Temperature (°C)	> 10 °C	
Service Temperature (°C)	-10 a 90 °C	

### Liner

Glassine Paper

	Value	Tolerance	Standard
Thickness (µm)	55	± 10 µm	ISO 534
Grammage (g/m2)	62	± 5%	ISO 536

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### Durability

- Indoor: Up to 10 years (unprocessed and without sun exposure)
- Outdoor: Up to 5 years (unprocessed and when applied on vertical exposure – Central European climate).
- Storage: 24 months, applicable only to unprocessed material under the following STORAGE CONDITIONS:
- Store at a temperature of  $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$  and  $50 \pm 5\%$  relative humidity, avoiding major climatic variations.
- The storage area must be dry and clean.
- Keep the material in its original packaging when not in use to protect it from dust and contamination.
- Do not expose to direct sunlight or heat sources.
- The product should be stored vertically to ensure its quality is not compromised.

### Applications

- Application surface: flat and slightly curved.
- Lamination instructions : We recommend using a temperature between 50 and 60 °C with a constant low to medium pressure.
- Not recommended for areas with car traffic; flexible or low-energy substrates; non-flat surfaces; painted or unpainted walls; plaster walls; wallpaper; uncleaned or rough surfaces; surfaces with degraded paint.
- Do not expose to combustible vapors or spills.
- Surfaces to which the material will be applied must be thoroughly cleaned and free of dust or any other contamination that could affect the material's adhesion.
- Non-vertical application implies a significant reduction in durability, as do climate and sun exposure angles.
- Before using the film, we recommend that it remains at the workplace temperature for at least 24 hours.
- Application to damp surfaces or wet application may result in adhesive residue being left on the surface after removal. As no two surfaces are the same, it is recommended that tests are carried out before use to check the removability.
- There may be other factors not described which could influence performance in use.

### Important Notes

- BIOND is not responsible for the ease or speed of removal of the applied material. Appropriate air and substrate temperatures must be considered.
- The user must determine the material's compatibility with their specific application before use.
- When carrying out a job, we recommend using the same batch of product.
- The information provided in this document is based on our knowledge and practical experience. It is intended as a source of information and does not constitute a guarantee. Subject to change without prior notice.
- BIOND is not responsible for misuse or inadequate storage, nor can it be held liable for any losses or damages to third parties.

Technical Data Sheet Revision Date: 29/09/25  
Approved by: SC