

DECAL FINISH 70.80 PREMIUM LAMINATION



“Overlamine is a series of self-adhesives designed to laminate and protect medium to large-sized prints. Compatible with the different types of printing (water, solvent, latex and UV), these products offer UV and mechanical protection (abrasion, wear, etc.). The silvering and milky effects are not problems due to tight quality control and a well-studied adhesive production process, thus giving exceptional quality to this product line.”

PRODUCT DESCRIPTION

- **Substrate:** Crystal Clear Glossy/Semi-Glossy/Matte PVC Transparente, soft calendered, made from monomeric resins. It is UV stabilized (prevents color fading) and offers protection against fingerprints (touching may damage the printed film) as well as mechanical, chemical and abrasion resistance.
- **Liner:** Glassine
- **Durability:** < 3 years
- **Common uses:** Cold lamination of paper, synthetic paper, vinyl, PP and PET films. Suitable for laminating surfaces printed with water, solvent, latex and UV inks. There is no silvering or milky effects.

PROPERTIES OF THE FILM

	Average value	Standard used
Thickness (µm)	70	ASTM D 1593
Grammage (g/m ²)	91	ASTM D 1593
Shrinkage - md/cd (1 min 60°) (%)	-1 / +0.5	ASTM D 1204
Surface energy (dyne/cm)	37	ASTM D 2578
Tensile strength - md/cd (MPa)	42 / 36	ASTM D 882
Elongation at break - md/cd (%)	360 / 420	ASTM D 882
Gloss 60 (%)	>90	ASTM D 523
Temperature of use (°C)	20 - 30	
Relative Humidity (use) (%)	50	

PROPERTIES OF THE ADHESIVE

	Average value	Standard used
Peel Adhesion (N/25mm)	10 - 12	FINAT (FTM1/Inox/Initial)

PROPERTIES OF THE LINER

	Average value	Standard used
Thickness (µm)	69	ISO R 534
Grammage (g/m ²)	80	ISO R 536
Release Force (cN/25mm)	30	FINAT 10

CONSIDERATIONS AND RECOMMENDATIONS

- o Application surface: flat

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- o Film not recommended for floor graphics (areas with car traffic), flexible or low energy films, non-flat surfaces, painted or non-painted carton walls, plaster walls, wallpaper, poorly cleaned or rough surfaces, surfaces with degraded ink.
- o Do not expose to common spills or vapours.
- o Non-vertical application results in a significant decrease of the durability, as well as an inadequate climate and angles of solar exposure. Before film usage, it is recommended that it is left at least 24h at the temperature of the workplace. Other factors not described here may influence performance in use.
- o Removal: without heat or chemicals
- o Store between 15 and 25°C and 50%RH, protected from solar exposure, in a clean dry location, in the original package. The product must be stored vertically in order to ensure that the quality is not compromised.
- o Use within 1 year of the production date, as long as kept in the closed original package.
- o "Silvering effect" – It's caused when tiny air bubbles are captured between the adhesive on an overlaminating film and the surface of a print. Silvering is generally most noticeable in the dark shadow areas of a print and frequently occurs when laminating UV-curable inkjet prints. UV inks cure immediately, so there's no time for the ink to level out. Instead of a smooth finish on the print, UV inkjet prints have a rough, velvety texture. Ideally, the adhesives on overlaminates should be formulated to flow into that textured surface of the print. If the adhesive flows out properly, you should not have silvering problems.
- o "Milky effect" – This defect occurs when there is separation of the laminate and the film due to adhesive failure or non-uniform application.

IMPORTANT NOTE

- Decal can't be held accountable for the ease or speed of removal of the applied material. The air and the film's temperature have to be taken into account.
- The data provided in this technical sheet is based on our knowledge and experience. It's supposed to be a source of information and cannot be used as a guarantee. The data contained here is subject to changes without previous notice.
- The end user should determine the materials' compatibility with the intended application, prior to using it. Decal won't be held accountable for misuse or inadequate storage, and cannot therefore be responsible for losses or damages to third parties.
- Claims are only accepted if the client has the QR codes available alongside the product and placed in the production sheet.
- ISEGA center of research approved the Acrylic UV Adhesive, in accordance with the European requirements for direct contact with dry food, non-greasy. In addition to this the labels coated with the UV adhesive can be used for labelling of packaging material for food.

TEST METHODS

Adhesion – FINAT FTM1	The test is done by removing a strip, 25mm wide, at an angle of 180° from the inox steel plate with the help of a 50kg cell dynamometer. The value is measured after production and again after a period of time that allows the stabilization of the adhesive's properties, which you then compare with the values from the Quality Control tests.
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Revision Date of the Technical Data Sheet: 19.01.18

Approved by: RJ

Please, check our website for additional information www.decal-adhesive.eu/en or request any clarification needed from our technicians.