

AVAILABLE STANDARD WIDTHS AND LENGTHS: 1.37, 1.52 x 50 m.

PRODUCT DESCRIPTION: Ikonos Proficast GPG C50+ is a polymeric cast, white, glossy PVC film with pressure-sensitive, grey, acrylic adhesive. The product was designed for printing on solvent (eco/mild/hard), latex and UV printers.

PRODUCT STRUCTURE:

Film: 50 micron, polymeric cast, white, glossy PVC film.

Glue: permanent, pressure-sensitive, grey, solvent-based acrylic adhesive with a high resistance against UV-radiation, chemical products and humidity.

Liner: 2-side PE coated, one side siliconized, 130g PCK type backing paper.

RANGE OF APPLICATION:

Ikonos Proficast GPG C50+ is perfect for all long-term outdoor applications under the most extreme conditions, on any curved and flat surfaces. Ikonos Proficast GPG C50+ has been developed for automotive decoration, especially for applications with very deep indents.

PRODUCT CHARACTERISTICS: Clean removal if laminated with Proficast GPT LC40+/MPT LC40+ at 90°C (bottom roll).

PHYSICAL FEATURES: (at a relative humidity of 50 ± 5 % and a temperature of 23 ± 2°C)

	STANDARD NO.	VALUE
Thickness¹		
Thickness of PVC	DIN 53370	50 mic
Total thickness (film+glue+liner)	DIN 53370	230 mic
Elongation at break²		
In production length direction	DIN 53455	>190%
In cross direction	DIN 53455	>190%
Gloss level		
Dimensional stability ³	FINAT 14	<0,25 mm
Adhesion strength^{4,5}		
Quickstick	FINAT 9	10 N
After 20 min	FINAT 1	14 N/25 mm
After 24 h	FINAT 1	16 N/25 mm
Temperature range		
While applying	-	+5°C to +40°C
While exploiting	-	-45°C to +115°C
Flammability	If applied on aluminium, glass, steel = self-extinguishing	
Expected outdoor durability ⁶	-	10 years (vertical)

* The data concerns vertical surface exposure. The outdoor durability relates to the temperate climate of Middle Europe. If the laminating film is exposed to extreme weather conditions, such as austere insolation or humidity it may undergo accelerated deterioration. The image quality may also weaken in greatly contaminated areas and regions of high altitude.

After printing the ink must be perfectly dry so as to avoid any affect on the later combination with the laminate. The surface on which Proficast LAM-PRO is applied must be free of dust, grease, lubricant and any other substances which may hinder the film from adhesion. Freshly lacquered or painted surfaces should be allowed to dry for no less than three weeks. The compatibility of particular lacquers and paints should be tested by the user, prior to application on the material.

All rights reserved. All trademarks and registered trademarks are the property of their respective owners. The information included in the present publication is based upon our knowledge as well as practical experience and can be changed without prior notice. This data is displayed only in order to serve as a source of information and is given without guarantee and does not constitute a warranty. Owing to wide range of possible uses and applications, customers should independently verify the appropriateness of this material for their explicit purpose, prior to use.

STORAGE INSTRUCTIONS:

All Ikonos materials always need to be stored in their original packing and with the original protection flanges. Especially for cast films it is important that they are stored vertically. These films are softer than calendered films and consequently more sensitive to pressure marks when they are stored horizontally, resting on their own weight. In order to avoid any loss of quality, the Ikonos Solvent Vinyl should also be stored in suitable conditions, that is at a temperature between 10 and 20°C, and a relative humidity of 50 %. Under these conditions, the Ikonos materials can be stored for a period of two years.

REMARKS:

- The Ikonos cast vinyls are manufactured by a patented production method.
- Large amounts of solvent ink on the material can activate the ink on the backside of the material. If the material is enrolled too quickly after printing, the print on the backside of the material may become visible in your printout. Therefore we advise you to limit the amount of ink and to leave the prints to dry sufficiently before enrolling them.
- In order to remove the film again, it should be heated thoroughly in order to prevent adhesive transfer.
- As the colour of the film can differ slightly for each production run, we advise you not to use films with different batch numbers in one single and critical job.

RECOMMENDED TEMPERATURE SETTINGS:

When printing on the Ikonos solvent and low-volatile solvent media, the temperature settings of the printer are extremely important. Depending on the ambient conditions, the amount of ink and the requested print quality, we advise a pre-heater temperature between 35°C and 45°C. This temperature can be raised, on condition that the Ikonos material stays completely flat. A too high temperature can lead to an inferior print quality and to colour differences, because the material will become soft, as a result of which it might get damaged by the transport wheels of the printer, and because the material will undulate, as a result of which it could touch the print head. The same goes for the use of an after-heater (dryer). We advise an after-heater temperature that is about 5°C to 10°C higher than the pre-heater temperature. But again, the material should not undulate as a result of a too high temperature setting. In general, we can say the temperature of both heaters should be set as high as possible, without the material showing any form of undulation.

IMPORTANT:

The information, mentioned in this product data sheet, is based upon tests that were executed by Ikonos, and that we consider to be reliable. The information always represents an average, a minimum or a maximum value, and should be considered as such. It is only given for your information, and does not give any guarantee. It is up to the end user to decide whether or not the product is suited for his particular application.

- 1) The thickness of the Ikonos materials may vary slightly. The indicated value is an average value, obtained from a series of measurements.
- 2) The elongation at break of the Ikonos materials may vary slightly. The indicated value is a minimum value, obtained from a series of measurements.
- 3) The dimensional stability is the shrinkage of the unprinted material in mm. This value is measured by applying the film on aluminium (10x10cm), and placing it in a hot-air oven at 70°C for 48 hours (= Finat 14 Method, adjusted according to our own internally developed procedure). The indicated value is a maximum value, obtained from a series of measurements.
- 4) The adhesion strength is measured on glass, and this after 20 minutes and after 24 hours. The film is removed again in an angle of 180° and at a speed of 300 mm/min. The indicated value is an average value, obtained from a series of measurements.
- 5) The "Quickstick" is the direct adhesion strength, measured on glass. The indicated value is an average value, obtained from a series of measurements.
- 6) The expected outdoor life span refers to outdoor use under Central European conditions and to vertical applications. Non-vertical application can reduce the life span up to 50%. The expected life span of our films is based upon professional application on a dry, degreased and suitable background. Tropical conditions, or the use near chemical emission, may have a detrimental effect on the life span.

As the quality of your print does not only depend on the Ikonos medium, but also on so many other factors (such as the printer, the quality of the inks, the print software, the ICC profile, the ambient temperature, the air humidity, etc...), Ikonos can not guarantee or be held responsible for the eventual print result. The materials mentioned in our compatibility list have been tested under normal conditions and are purely indicative. Subject to modifications. For more detailed information we also refer to our general "Ikonos Proficast Warranty Certificate" and to our "General Terms and Conditions of Sale and Delivery".