



Grafiprint Laminates LAMUC

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Description

Grafiprint Ultra Clear laminate is a crystal-clear, high-gloss polyester film, provided with a pressure-sensitive permanent acrylic adhesive. The adhesive is protected by a matt transparent polyester carrier. This seamless laminate has especially been created for protecting digital prints that are applied on an even surface.

Application

With its magnificent gloss and crystal-clear transparency, the Grafiprint Ultra Clear laminate can be used for a wide range of applications. Thanks to its excellent UV-block, this film is suited for limited outdoor applications. Preceding compatibility tests are, however, advisable.

Composition

Film : 50 +/- 5 micron thick crystal-clear glossy polyester film with an excellent resistance against UV-light, chemical products, humidity, dirt and fingerprints

Adhesive : solvent-based pressure-sensitive permanent acrylic glue. This glue does not have an aggressive reaction on the printout

Backing paper : matt transparent polyester carrier of 72 gr/m²

Product Specifications

Technical properties at a relative humidity of 50 ± 5 % and a temperature of 23 ± 2°C

		Test method	Result
1.	Thickness¹		
	Thickness film	Din53370	50 micron
2.	Elongation at break²		
	Thickness film + glue + backing paper	Din53370	145 micron
3.	Dimensional stability³		
	In production length direction	Din 53455	> 90 %
4.	Degree of gloss		
	In cross direction	Din 53455	> 60 %
5.	Adhesion strength⁴	Finat 14	< 0.2 %
6.	Quickstick⁵		
	Minimum (measuring angle 20°)	Din67530	-
	After 20 minutes	Finat 1	13 N/25mm
7.	Outdoor life span⁶		
	After 24 hours	Finat 1	14 N/25mm
8.	Temperature range		
	After 24 hours	Finat 9	3 N/625mm ²
9.	Colour back print	-	Limited outdoor use
	Flammability	-	12 - 18 months (depending on the application)
10.	Temperature range		
	At application	-	+5°C to +40°C
9.	Colour back print		
	At use	-	-20°C to +70°C
10.	Flammability		
		-	grey

If applied on aluminium, glass, steel = self-extinguishing

Storage Instructions

All Grafiprint materials always need to be stored in their original packing and with the original protection flanges (and preferably stored vertically).

In order to avoid any loss of quality, the Grafiprint laminate should also be stored in suitable conditions, that is at a temperature between 10 and 20°C, and a relative humidity of 50%.

Important

The information, mentioned in this product data sheet, is based upon tests that were executed by Grafityp, 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 Grafiprint materials may vary slightly. The indicated value is an average value, obtained from a series of measurements, in which a tolerance of 10 % is acceptable.
- 2) The elongation at break of the Grafiprint materials may vary slightly. The indicated value is a minimum value, obtained from a series of measurements.
- 3) The dimensional stability is the shrinkage in %. This value is measured by applying the film on aluminium, and placing it in a hot-air oven at 70°C for 48 hours. 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/sec. 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 outdoor life span refers to outdoor use under Central European conditions, and only refers to the film itself and its adhesive backing. However, this does not give any guarantee for the life of a printout, as this depends on too many other factors, such as the inks that are used. The 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.