

GRAFIPRINT LAMINATES



REFERENCE LAMPU38

Reviewed on 1st April 2018

Provisional Specifications

Description

Grafiprint LAMPU38 is a transparent glossy thermoplastic polyurethane laminate, provided with a permanent pressure-sensitive solvent-based acrylic adhesive. The adhesive is backed by a high-quality transparent release liner.

Composition

Film	: 38 micron thick transparent glossy thermoplastic polyurethane laminate
Glue	: transparent pressure-sensitive permanent solvent-based acrylic glue. This glue does not have an aggressive reaction on the printout
Backing paper	: transparent release liner (112 g/m ²)

Application

The ultra thin Grafiprint LAMPU38 thermoplastic polyurethane laminate has been developed especially for protecting prints made on Grafiprint PU50 Comfort printing film.

Product Specifications

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

		Test method	Result
1.	<u>Thickness¹</u>		
	Thickness film	Din53370	38 micron
	Thickness film + glue + backing paper	Din53370	170 micron
2.	<u>Elongation at break²</u>		
	In production length direction	Din53455	...
	In cross direction	Din53455	...
3.	<u>Dimensional stability³</u>	Finat 14	< 0,1 mm
4.	<u>Adhesion strength⁴</u>		
	After 20 minutes	Finat 1	7 N/25mm
	After 24 hours	Finat 1	8 N/25mm
5.	<u>Quickstick⁵</u>	Finat 9	7 N/25mm
6.	<u>Expected outdoor life span⁶</u>	-	Tests in progress
7.	<u>Temperature range</u>		
	At application	-	+10°C to +35°C
	At use	-	-25°C to +80°C
8.	<u>Colour back print</u>	-	blank
9.	<u>Flammability</u>		
	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 %. Under these conditions, the Grafiprint materials can be stored for a period of two years.

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.
- 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 mm. This value is measured by applying the film on aluminium (100x100mm), 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. The expected outdoor life span refers only to the UV-resistance and the wear-resistance of the material. For more detailed information we also refer to our general "Grafiprint Warranty Certificate" and to our "General Terms and Conditions of Sale and Delivery".