

filmolux® 2004

General information

- one-sided self-adhesive, glossy, crystal clear , colourless, environmental friendly polypropylene-film
- washable and resistant to a large number of detergents and solvents
- coated with a solvent-free, age resistant- and permanently elastic acrylate adhesive
- permanent bonding

Areas of application

- laminating film for classical photos, inkjet- and digital print medias like paper, polyester, vinyl, etc.
- suitable for UV-curable inks printed media
- not usable in cutting plotter
- universally applicable for indoor- and outdoor use
- Please note that due to the multiple areas of application of this material (combined with various films, sheets of PVC or other application substrates) physically- determined dimensional fluctuation might occur that can possibly be triggered by fluctuations in temperature during processing and/or during actual application. For this reason, all specifications in our technical information are meant as references, and explicitly not intended as a basis for warranty or guarantee. Because it is impossible to test every possible print -application combination, we recommend customers conduct their own tests to see if the material is qualified for the actual end-use.

Processing & Handling

- especially when laminating inkjet prints care must be taken to ensure sufficient drying and completely curing of the inks We recommend minimum of 24 hours.
- weather resistance even more can be improved by sealing the edges with outdoor proof varnish or laminating overlapping (approx.. 2cm wider than the exhibit). We recommend this especially for long-term application.
- possibly arising adhesive residues can be removed with help of denatured alcohol or benzene.
- ALWAYS store the rolls together with the label respectively batch number! Without batch number or production number, no requests or claims can be accepted!
- please refer to the general processing instructions on our homepage www.neschen.de

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Advantages / Special Features

- attractive, glossy finish
- PVC-free
- environmental friendly
- writeable and dry removable after 24h with special marker Edding 250 and Pilot Whiteboard marker.
If there are any residues visible after longer term application, they can be easily removed with the help of common solvents as e.g. denatured alcohol
- particularly suitable for organisation boards

Durability:

Indoor: excellent optical characteristics up to 4 years

Outdoor: excellent optical characteristics up to 1 year

All tests conducted under controlled climatic conditions; 23/50-2, DIN 50014

Note:

These end-use life estimates are based on accelerated ageing studies and outdoor exposure, under conditions experienced in vertical exposure and in "normal" Central European climate. Exposure to severe humidity and ultraviolet light, as e.g. in southern Europe countries, and also in tropical, sub-tropical or desert regions will cause a more rapid deterioration. This also applies to polluted areas high altitude and south-facing exposure

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Technical Data
Carrier

| | | | |
|---|--|---------------------|--------------------------------|
| Film type | OPP-Film, clear , glossy | | |
| Thickness [µm] | 23± 3 | approx.: 1 mil | |
| Weight [g/m²] | 25± 3 | | |
| Breaking force [N/15mm] | lengthwise: > 35 | crosswise: > 70 | DIN EN ISO 527-3, 50 mm/min |
| Elongation at tear [%] | lengthwise: > 130 | crosswise: > 15 | |
| Tear resistance [N/mm²] | lengthwise: > 110 | crosswise: > 200 | |
| Gloss [scale units] | > 80 | 20° measuring angle | |
| Visible gel particles | In principle, the visibility of single gel particles cannot be ruled out | | |
| L*a*b* value | In principle, colour deviations cannot be ruled out | | |

Adhesive

| | | | |
|------------------------------------|-------------------------|------------|------------|
| Adhesive type | Polyacrylate dispersion | | |
| pH-value | approx. 7,0 | | |
| Adhesive strength [N/25 mm] | 10 min: > 6,0 | 24h: > 8,5 | AFERA 4001 |

Masking

| | | | |
|---------------------------------|---|------------------|--|
| Type | One- sided siliconised white Glassine-paper | | |
| Thickness [µm] | 54± 6 | approx. 2 mil | |
| Weight [g/m²] | 65± 6 | | |
| Removal force [mN/cm] | 12-45 | Speed 300 mm/min | |

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Others

| | | | |
|---------------------------------------|---|------------------|----------------------|
| Storage conditions | 18° - 25°C/ 64 - 77°F; 40 to 65% relative humidity | | |
| Shelf Life [Years] | 3 | | |
| Application temperature range: | 5 to 40°C/ 41 to 104°F | | |
| End-use temperature range: | 0°C to +100°C | 32° F to +212° F | affixed to aluminium |

All tests were performed in accordance with 23/50-2, DIN 50014.

Published information concerning our products is based upon practical knowledge and experience. Purchasers should independently determine, prior to use, the suitability of each material for their specific purpose. The purchaser must assume all risks for any use, operation and application of the material. We are liable for damage only upon the amount of the purchase price under exclusion of indirect and accidental damage. All information given serves only to describe the product and is not to be regarded as assured properties in the legal sense. Specifications subject to change without notice, errors and omissions excepted.



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