# filmolux® scratch



#### **Technical Information**

## General information

- one-sided selfadhesive, scratch resistant, sandstructured, transparent polyester-film
- washable and resistant to a large number of detergents and solvents
- > coated with a solvent-free, age resistant- and permanently elastic acrylate adhesive, which does not brittle or bleed

## Areas of application

- laminating film for classical photos, display panels, inkjet- and digital print medias like paper, polyester, vinyl, etc.
- due to the special surface ideal for panel production, for instance Roll Up, Pop Up Panels and Banner Displays
- > suitable for indoor- and outdoor use
- for universal application

## Processing & Handling

- > if laminating inkjet-prints sufficient drying of the prints has to be ensured. We recommend min. 12 hours
- > please refer to the general application tips in our current catalogue and on our homepage <a href="https://www.neschen.de">www.neschen.de</a>

# Advantages / Special Features

- attractive, sandstructured finish
- high dimensional stability

Version: 06/2012

> scratch resistant, extremely durable even for heavy duty service

# filmolux® scratch



## **Technical Information**

## > Technical Data

#### Carrier:

| Film type:                            | polyester, transparent, scratch resistant, sandstructured |  |                               |
|---------------------------------------|---|--|-------------------------------|
| Thickness [µm]:                       | 115 ± 10  | approx. 4,5 mil                              |                               |
| Weight [g/m <sup>2</sup> ]:           | 106 ± 10  |  |                               |
| Breaking Force [N/15mm]:              | lengthwise: > 100   | crosswise: > 140                             | DIN EN ISO 527-3,<br>50mm/min |
| Elongation at Tear [%]:               | lengthwise: > 80  | crosswise: > 60                              | DIN EN ISO 527-3,<br>50mm/min |
| Tear Resistance [N/mm <sup>2</sup> ]: | lengthwise: > 55  | crosswise: > 80                              | DIN EN ISO 527-3,<br>50mm/min |
| Gloss [graduations]:                  | > 8   | Dr. Lange reflectometer, 20° measuring angle |                               |

#### > Adhesive:

| Adhesive Type:              | polyacrylate dispersion               |
|-----------------------------|---------------------------------------|
| pH-value:                   | approx. 7,0                           |
| Adhesive Strength[N/25 mm]: | 10 min: > 11,5 24h: > 15,5 AFERA 4001 |

### Backing:

| Type:                       | one-sided siliconised, white glassine paper |                  |               |
|-----------------------------|---|------------------|---------------|
| Thickness [µm]:             | 54 ± 6                                      |                  | approx. 2 mil |
| Weight [g/m <sup>2</sup> ]: | 65 ± 5                                      |                  |               |
| Removal Force [mN/cm]:      | 12 to 45                                    | speed 300 mm/min |               |

#### > Others:

| Storage Conditions:            | 18° to 25 ℃ / 60° to 80° F; 40 to 65% relative humidity |  |  |
|--------------------------------|---|--|--|
| Shelf Life [Years]:            | 4   |  |  |
| Application temperature range: | 5℃ to 40℃ / 41 ℉ to 104℉                                |  |  |
| End-use temperature range:     | -30 ℃ to 100 ℃ / -22 ℉ to 212 ℉                         |  |  |
| Humid Climate Stability:       | n.a.  |  |  |
| [change/no change]             |   |  |  |

### **Durability:**

Indoor: excellent optical characteristics up to 6 years Outdoor: excellent optical characteristics up to 3 years

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" temperated climates. 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 southfacing exposure

Version: 06/2012 Copyright Neschen AG, 2012 www.neschen.de

2 of 2

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.