

# TECHNICAL DATA SHEET

## TECHNISCHES DATENBLATT

### Self-Adhesive UV-Protection Yellow Foil

YSA520

#### GENERAL INFORMATION

The self-adhesive UV protection yellow foil YSA520 was specially developed for UV photo-sensitive applications and blocks UV radiation below 520 nm. The UV-protective film YSA520 consists of yellow-dyed cellulose triacetate and is coated on one side with a permanent dispersion glue, thus it can bubble-free all-over laminated on all solid indoor surfaces. By full-surface bonding as on windows, room dividers and screen elements, it provides a reliable UV protection even in demanding applications. Our self YSA520 UV blocking filter is commonly used in the field of photolithography, the PCB and microelectronics manufacturing and photoresist preparation and the handling of photoresists and diazofilms. Even in the pharmaceutical industry and laser technology, our self-adhesive YSA520 UV blocking filter allows a reliable protection against UV radiation below 520 nm.

#### FEATURES

- Blocks wavelengths below 520 nm (see semi-logarithmic graph next page)
- Outstanding optical purity
- High adhesion
- Long-term UV stable
- High inherent scratch resistivity

#### TECHNICAL DATA

|                                       |                                   |
|---------------------------------------|-----------------------------------|
| Bond strength immediately:            | ~ 7.5 N / 25 mm                   |
| Bond strength after 7 days:           | ~ 15 N / 25 mm                    |
| Adhesive:                             | Acrylic-dispersion adhesive       |
| Cover:                                | PE cover, red plaid in 10 mm grid |
| Max. width:                           | 1,15 m                            |
| Temperature range during application: | 15 °C                             |
| Temperature range:                    | -30 °C to +80 °C                  |
| Location of Installation:             | Indoor                            |

#### CHEMICAL CHARACTERISTICS

The laminated yellow foil YSA520 is resistant to most oils and greases, gasoline and aliphatic hydrocarbons. The surface of the yellow film is partially dissolved or swollen by hydrochlorofluorocarbons, ketones or aromatic solvents, which can affect the optical properties.

The yellow foil YSA520 is waterproof for a short time when glued on. Long-term exposure to moisture can lead to reduced adhesive strength and subsequent detachment of the film.

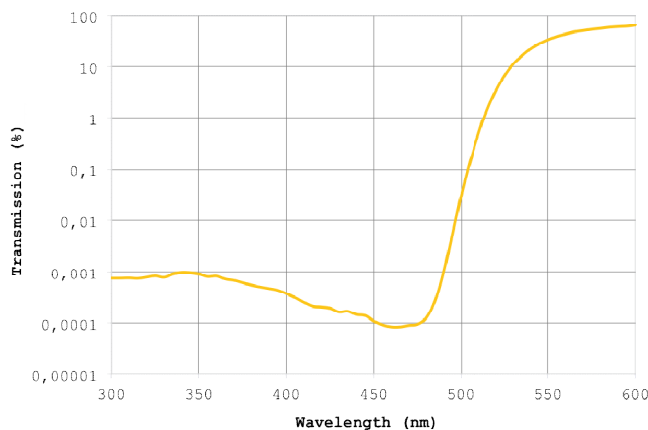
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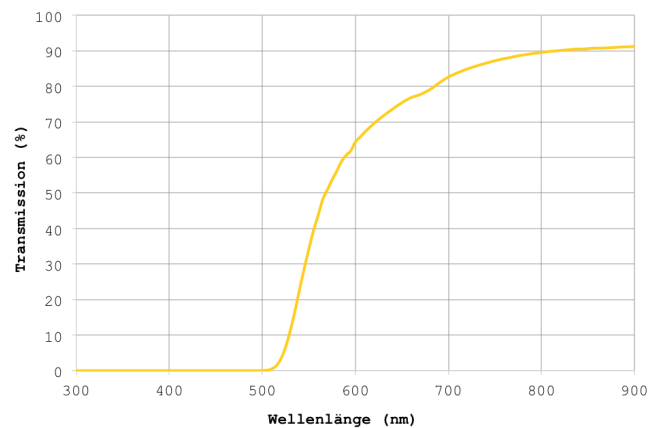
### OPTICAL TRANSMISSION

The transmission characteristics of our self-adhesive UV protection film yellow YSA520 are very close to our former yellow foil Y520, and were specially adapted to the stringent quality requirements in the area of the yellow rooms in e. g. photolithography / micro-electronics industry. The plot shown below is semi-logarithmic. At 450 nm wavelength, therefore, the transmission is close to the detection limit. If you compare our film with other "yellow" foils, we recommend to ask for a semi-logarithmic transmission plot.

Semi-logarithmic transmission graph



lineare transmission graph



This transmission spectrum is not to be seen as specification, but as exemplaric measurement of a certain lot of our yellow foil.

### FIRE BEHAVIOR

The laminated self UV protection film yellow YSA520 is self-extinguishing.

### STORAGE

Under proper storage conditions of 5 - 25 °C and a relative humidity of 30 - 60%, the UV protection film YSA520 has a shelf life of up to one year. To avoid pressure points, we recommend a standing or hanging storage.

### INSTALLATION

The yellow foil YSA520 can be glued with our mounting fluid DX MF 301 easily and bubble-free on any smooth and solid indoor surfaces. Detailed information is available in our assembly instructions for self-adhesive UV protection film yellow YSA520.

For filtering fluorescent tubes, we recommend our specially designed polycarbonate sleeves. Here, our UV protective film Yellow Y520 is already incorporated, so you can cost-effectively "upgrade" standard white fluorescent tubes for your yellow light application .

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### SALES UNITS

| Article-number: | Rolls (Width: 1,15 m)                 |
|-----------------|---------------------------------------|
| GESA520001      | 1 m                                   |
| GESA520005      | 5 m                                   |
| GESA520010      | 10 m                                  |
| GESA520015      | 15 m                                  |
| GESA520020      | 20 m                                  |
| GESA520Z        | 1,15 m x ... Pre-cut (running meters) |

### Further Information

All data and information relate to the best of our knowledge and are based on measurement and experience. It remains in your responsibility to check the suitability of our yellow foil for the intended use of it. Our products are regularly quality-tested and further developed. We therefore reserve the right to adjust without additional information, the chemical composition or physical characteristics of new knowledge.

For any further information please contact our technical advisory.

Your request by E-Mail or Phone.

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