

# Product information

## Laser-Label Series toptack LASER FOIL Yellow / Black



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Release 1.0

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Material Nr.: 5xx8xxxx

### General description:

The label material consists of polymer film. The surface color is glossy yellow. The material is designed for marking / engraving with a laser. It is also possible to cut the material with the laser beam. The surface of the film also enables printing using the thermal transfer printing process. Laser marking is based on a material engraving process. The inscription appears black due to the marking with the laser beam. The film is equipped with a permanent \*pressure sensitive adhesive on the underside.

### Physical properties:

Label material	50 µm Polymer foil Polyester based
Pressure sensitive adhesive*	25 µm Acrylic modified (*35µm / *75µm as an option)
Liner material	55 µm Glassine paper non-stick coated on one- / both* sides

### Special Features:

- Good adhesion even on low-energy surfaces
- Good adhesion also on very rough surfaces\*
- High temperature resistance
- High durability of the typeface by laser engraving
- Good resistance to external loads
- Marking with CO<sub>2</sub>, fiber laser or Nd-YAG laser

### Features:

Temperature resistance	- 40° C bis + 140° C (briefly also higher)
Minimum bonding temperature	+10° C
Roughness of the substrate	RZ10 (option: up to RZ35* )
Resistant to many chemicals and oils	

### Measured pull-off forces based on FINAT FTM1 from the mentioned reference surfaces:

Polypropylene: 17N - 29N\* / 25mm

Stainless Steel: 16N - 27N\* / 25mm

### **IMPORTANT NOTE:**

- ➔ Harmful vapors and fine dust are produced during the laser burn-off process.
- ➔ It is therefore imperative to use suitable filter or extraction systems. We would be happy to advise you.

### Special Notes:

The surface of the substrate must be clean and dry and at least +10°C when gluing the material. Use CO<sub>2</sub>, Nd-YAG lasers or fiber lasers, suitable for engraving of foil material. (Parameter for the laser, as an example, 20W fiber laser, for writing on the laser material: Laser power: 30%, frequency: 20kHz, speed: 2000 mm/sec.). The material conforms to current RoHS and REACH regulations. IMDS data for label out of this material is available on request.

### Storage conditions:

Storage up to approx. 12 months at a maximum ambient temperature of +20°C and 50% humidity. We refer to the relevant guidelines for the storage of self-adhesive materials from the FINAT association and its recommendations (available upon request). Avoid changing moisture and changing temperatures while storage the material.

### Legal notice:

This material information is intended to advise you. Information has been compiled to the best of our knowledge. However, no rights can be derived from the information provided and no claims can be derived from it. Only your own tests can provide information about the suitability of the material.