

Application Instructions

LASERFLEX – Flex Film for Laser Cutting and Weeding



To be mirror cut

LaserFlex is a high quality multi-layered polyurethane film on an aqueous base, having a good opacity and high elasticity.

LaserFlex has been specially designed to be not only laser cut but also weeded. Thus even the most complicated motifs become child's play. That starts already when establishing the motif, as pixel graphics need not be vectorised anymore. Only place film in the laser – activate laser – remove the motif – iron – ready! Even

the smallest quantities of transfers can be produced fast and cost effective by using only a computer and laser.

Optimal laser settings vary depending on the laser power and the speed of your laser. For a Speedy 300 with 60 watts and a 1,5" lense we recommend:

Engraving: P = 40%, V = 40%, dpi/PPI = 600

Cutting: P = 30%, V = 4%, Hz = 1000

We recommend processing from the bottom up while using the highest possible exhaust power level. This way any dust produced is no longer drawn across the already laser



Transfer motif

processed area. The engraved image remains dust free and does not need to be cleaned afterwards.



Remove liner, done!

By pre-rastering grey levels impressive hatch areas can be produced, which cannot be created with conventional cutting plotters. "Halftone" rasters in the range of 15 lines per inch in particular produce stunning results.

The cut and weeded motifs are ironed onto textiles for 17 seconds at 165 °C, after a short cooling period the carrier can be removed.

LaserFlex is suitable for cotton, polyester and mixed fibres, however, less suitable for nylon and other coated textiles. LaserFlex is wash resistant up to 60 °C.

Weeding of heat transfer materials by a laser is under the patent hold by SEF EP 2 000 250-B1. SEF recommends Trotec Lasers in order to achieve a perfect quality. LaserFlex is also available at Trotec, details on www.troteclaser.com.

Store in a cool and dry place; protect against the influence of light when stored. We recommend not to exceed a storage period of 12 months. The technical specifications rest on extensive tests and technical research. Due to the variety of possible influences during refinement, and use, the specifications should be viewed as reference values. We recommend a suitability test on the original material. A legally binding warranty of specific characteristics cannot be derived from our specifications.

Thickness

60 µ

Transfer Conditions

Temp.: 165 °C

Time: 17 seconds

Pressure: medium/high

Flex on Flex possible

Suitable Textiles

Cotton, Polyester, Mixed Fibres. Less suitable for Nylon and other coated textiles.

Wash resistance

60 °C wash resistant

Colours

LaserFlex is available in 8 colours.



Additional colors upon request

Packaging

A4, 50 Sheets

A3, 50 Sheets

50 cm x 25 m

Additional packaging upon request