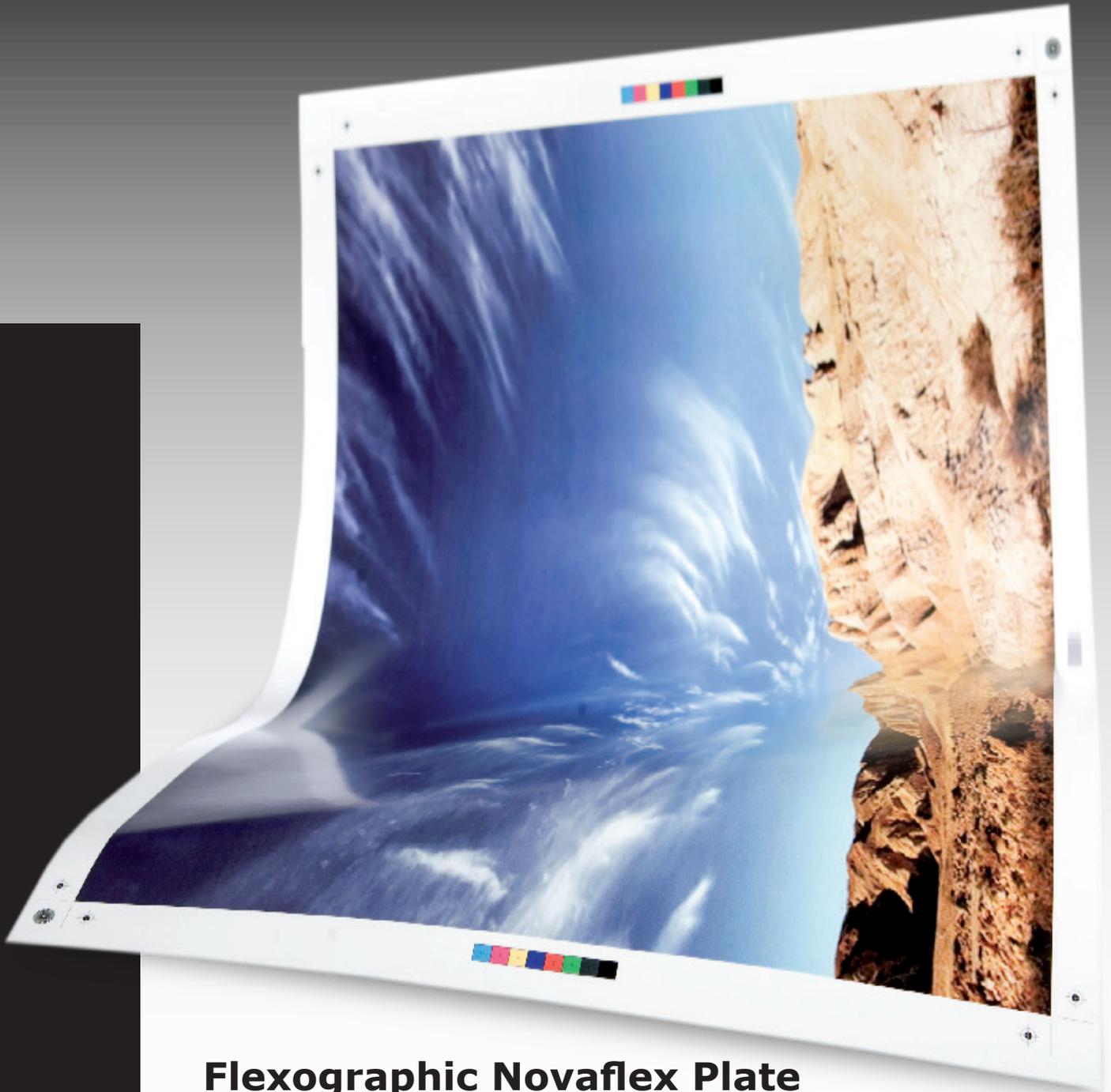


Flexo Plate



Flexographic Novaflex Plate

We at NOVURANIA have learned many years ago listening to our customer's needs and to the stockholder's expectations. This is how we have developed products specifically designed to meet your needs, while constantly improving on our environmental compliance. New construction materials and technological advances play a vital role in NOVURANIA's R&D and manufacturing processes. No one believes more firmly than our staff that Innovation is the key to success... Year after year we continue to introduce new models as well as new, cleaner, manufacturing processes. Our environmental managing system is approved to ISO 14000, because we believe we owe this to the future generations.

Every time, every day you use our new NOVURANIA blankets you will appreciate we are truly *Ahead of our times*.

Characteristics

Burns cleanly with any type of laser

Fumes are non toxic, non etching and non corrosive

Leaves practically no ash or residue (it can be cleaned with compressed air after engraving)

High definition possible (over 100 lines per cm)

Works with almost any ink and solvent due to the variety of compounds available.

Extremely long runs (up to 10 times longer than with typical photopolymeric plates)

Lower percentage screens possible

Better dot quality and ink transfer

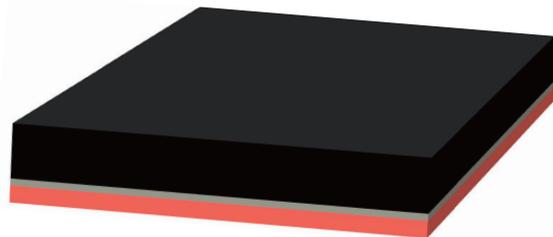
Higher sensitivity reduces engraving time and energy

Can be used for printing or coating

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FLEXO PLATE

The Novurania Flexographic Novaflex Plates have been specifically developed for direct laser engraving (so called DLE plates). This technology allows a clean, totally CTP plate production, eliminating production steps, as well as solvents which have to be disposed of. The surface of the Novaflex plate is buffed, for better gauge control and consistency, and for better ink acceptance and transfer. The digital technology used to engrave the plate, allows better control of the shoulder angle of the dots, as well as of the ablation depth of the non-printing area. Also the screens to be printed can be more precise and have better definition, thus allowing longer print runs between cleaning. The available rubber compounds have been designed for clean and energy-efficient ablation and leave practically no residue with different laser types. Currently the Novaflex Plate is available with compounds based on EPDM, and SBR. The choice of compounds allows the compound to be used with the best chemical resistance and the best image transfer, with different types and brands of ink. A big development effort has been put in the sensitivity of the compound to the laser beam. The very high sensitivity obtained allows quicker ablation and lower energy consumption for the preparation of the plate, regardless of the type of laser used (CO₂, Yag or diod laser). The EPDM compound is available in a variety of hardness, to optimize print result on different substrates. The plate is available in 3 standard gauges (1,14 – 1,70 – 2,84 mm) although other gauges can be produced on request. The construction of the plate can be plastic backed (for better adhesion of the double faced adhesive tape) or rubber backed (to minimize curl of the plate).



Available gauge	1,14 - 1,70 - 2,84mm
Standard surface colour	Black

Typical technical data

	Novaflex ERB Rubber Backed	Novaflex EPB Plastic Backed
Tensile strength	> 1100 N/50 mm	> 800 N/50 mm
Elongation	1,6 % (10N/mm load)	1,6 % (10N/mm load)
Micro Hardness	74 Shore M	74 Shore M
Surface roughness	0,8 - 1,0 µm Ra	0,8 - 1,0 µm Ra
Swelling		
in ethyl alcohol	0 %	0 %
in ethyl acetate	< 0,4 %	< 0,4 %
in isopropyl alcohol - ethyl acetate	0 %	0 %