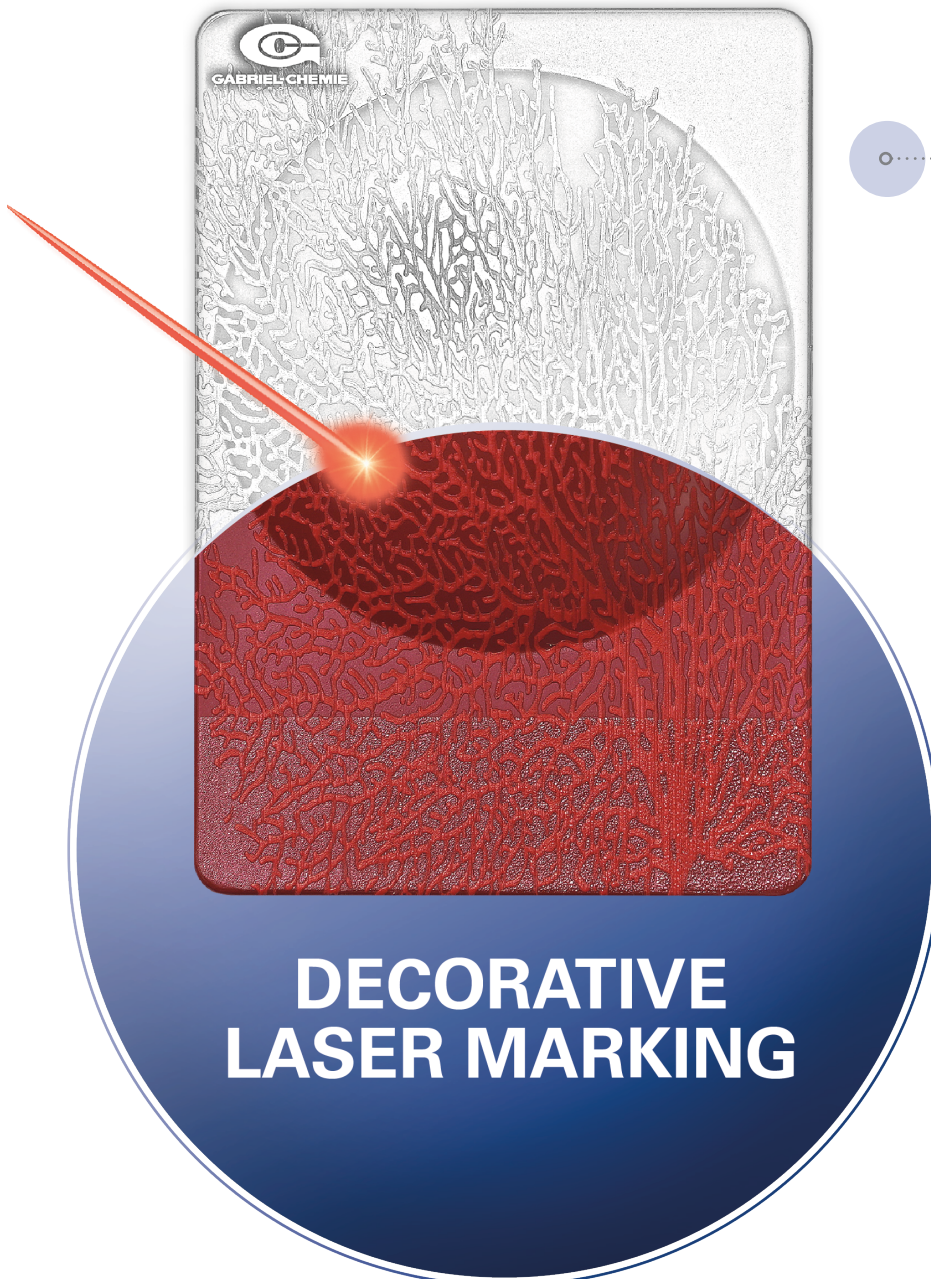


*Fine & detailed design* .....

*Abrasion-resistant, chemical-resistant & lightfast* .....

..... *Sustainable*

..... *Wide material compatibility*



# BRINGING LIFE *to plastics*

Laser marking on plastics has been known for many years and is widely used across numerous applications. Since 1995, Gabriel-Chemie has been deeply dedicated to this speciality and has continuously expanded its competence centres in this field.

The advantages of contactless laser marking are well established: **abrasion-resistant, chemical-resistant and lightfast**, combined with high flexibility for both complex and rapidly changing layouts. Extremely **fine and detailed design** representations open up new possibilities in product design.



## **Fine lines** – new contrasts:

This is precisely where decorative laser marking excels, enabling decoration even on **soft, rough, stepped or curved surfaces**. With the use of laser additive masterbatches, customised designs and personalised image renderings on plastic surfaces become possible. Monochrome images on optically metallised plastics are particularly innovative and attract significant attention, as the examples here demonstrate.

By adjusting the laser parameters, laser designs can be created either beneath the surface using our special metallic gloss colour impressions or directly on the plastic surface. This allows for optical and tactile design effects that make each product truly unique.

Laser marking is currently experiencing renewed interest driven by **sustainability**: markings and decorations are produced without inks, labels, sleeves or other substances. This means the product or packaging can go directly into the recycling process without restrictions, actively supporting a circular economy.

# BRINGING LIFE *to plastics*

## Decorative Laser Markings – Advantages at a Glance:

Extremely fine lines, complex patterns and intricate designs – ideal for logos, lettering, textures or customised engravings

Permanent and abrasion-resistant markings

Wide material compatibility: suitable for many polymers and combinable with functional effects such as matte, glossy or colour-shifting surfaces

Environmentally friendly and clean – no inks, chemicals or solvents required

Suitable for automated series production – ideal for industrial applications, design and branding

Creative freedom and individualisation – each piece can be uniquely designed (personalisation, serial numbers, patterns)

