

*Abrasion-, Chemical- &  
Weather-resistant*

*Laser Additive &  
Combination Masterbatches*

*Dark, Light &  
Coloured Markings*



# BRINGING LIFE *to plastics*

The laser marking process enables **permanent marking on plastic surfaces** using an optically controlled laser beam. Material optimization through the addition of 2-3% laser additives is usually sufficient to achieve the desired marking contrast. Our developments are based on the infrared laser marking technology with a wavelength of 1064 nm. Fibre lasers in particular have become established in many applications.

Laser technology offers numerous advantages compared to other decoration methods. Laser marking is **abrasion-resistant, chemical-resistant and weather-resistant** and can even be applied to soft, coarse, stepped or curved surfaces.

In addition, laser technology also excels through its high flexibility which makes it ideal for small batch sizes and rapidly changing layouts. We have been involved with the laser marking technology since 1995.

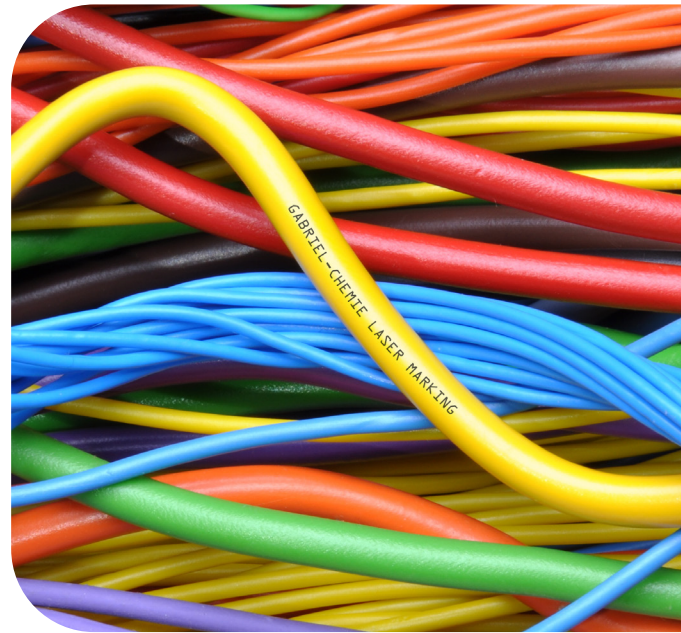


Our product portfolio consists of **laser additives and combination masterbatches** – colour & additive – suitable for all thermoplastics. We provide comprehensive service at various locations, from project idea to realisation. Our infrared lasers, with a wavelength of 1064 nm, are available for trials and tests until the best marking quality has been achieved. In addition, we operate a network of competent partners who manufacture and distribute laser equipment or work with contract laser marking companies.

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## LASER MARKING APPLICATIONS ARE AS DIVERSE AS THEIR ADVANTAGES:

- Company or Brand Logos
- Barcodes and QR codes
- Promotion codes in beverage caps
- Food and cosmetics packaging with logos, scales, product information, expiry dates or decorative designs
- Marking of animal ear tags
- Safety seals and security tags
- Keyboards
- Interior and exterior automotive accessories
- Cables and pipes
- Electronic components
- Medical products and laboratory equipment



Our masterbatch is suitable for processing in **injection moulding, hollow body injection moulding and for the extrusion of thick-walled products**. We can also provide masterbatches for **film extrusion** upon request.

You have the choice between purely laser additive masterbatches or combination masterbatches, consisting of carrier polymer, additives and the colour of your choice.

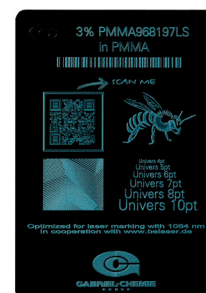
Three kinds of **marking colours** are possible:



**Dark Marking  
(Carbonization)**



**Light Marking  
(Foaming)**



**Coloured Marking  
(on Black)**

# BRINGING LIFE to plastics

## Advantages of Laser Marking:

Contactless marking of plastic parts

Suitable for soft, coarse, stepped or curved surfaces

Marking without printing ink and solvents

No pre-treatment of plastic parts

Abrasion-, chemical- and light-resistant

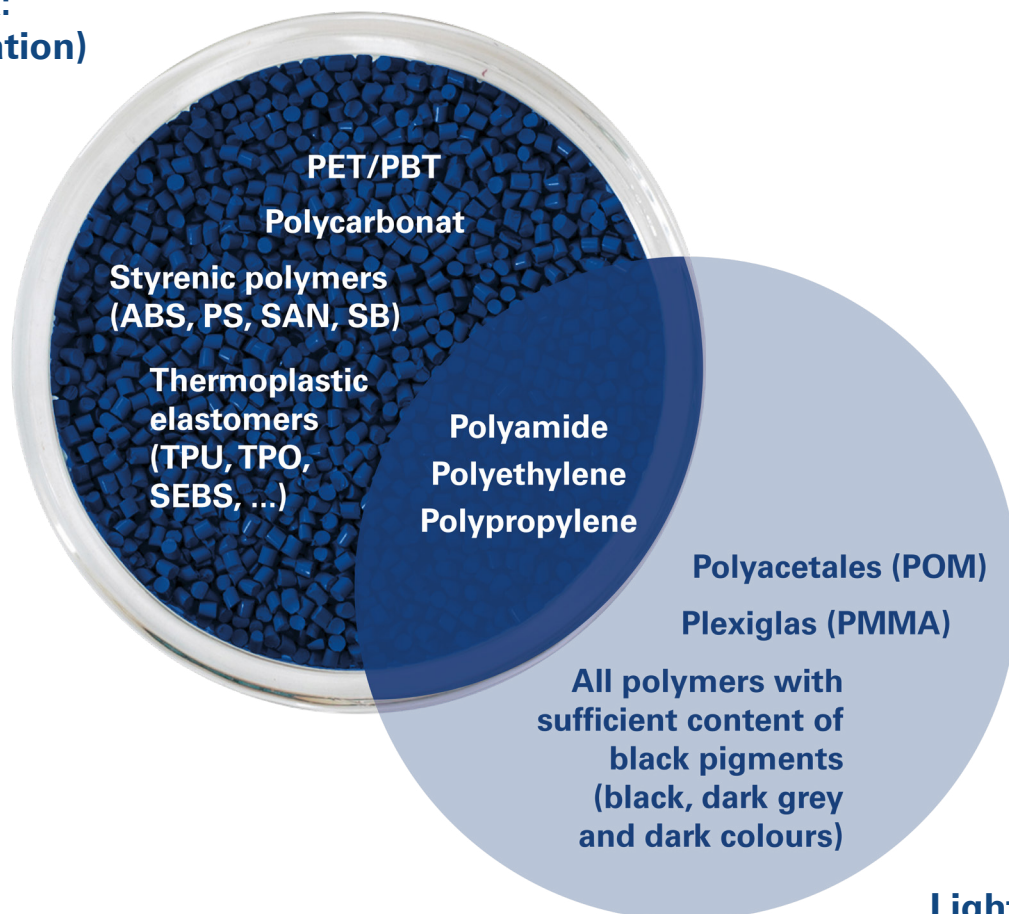
Maximum flexibility for complex and rapidly changing layouts

Product safety ensured by permanent and forgery-proof labelling

Individualization and Personalization

The **influence of the polymer type** on the tendency to achieve a light or dark colour change with 1064 nm wavelength:

### Dark mark: (carbonisation)



### Light mark: (foaming)