



LASER-MARKABLE COMPOUNDS

COLOR

FEATURES

- Allow for high contrast, permanent marks and images to be added via laser processing
- Weatherable and colorable
- Many resins available, including some that can be formulated with biocompatible or FDA ingredients

BENEFITS

- Durable and wear resistant
- Eliminate inks, paints, and dyes, thus saving on processing costs
- Fast, precise, and reproducible high quality marks
- Global availability

Laser-Markable Compounds are ideal for applications that require permanent, durable marking for high contrast and longevity.



Laser-Markable Compounds are available in clear, white, black, or custom colored to meet your requirements.

RTP Company can formulate thermoplastic compounds for laser marking, which can provide design flexibility in marking a variety of surfaces with simple to intricate patterns, and reduce processing costs.

Laser-Markable Compounds and Masterbatches are designed to work with laser technology to produce permanent marks that are resistant to wear and abrasion. Laser marking is clean, fast, flexible, and allows for quick setup. Furthermore, although lasers avoid surface contact, they can mark logos, serial numbers, and other important information onto parts. For example, medical devices made from Laser-Markable Compounds can be sequentially numbered via laser to comply with the FDA Unique Device Identification System.

Lasers impart laser marks by causing thermochemical or photochemical reactions. These reactions can create dark or light marks by carbonization or foaming of the compound. RTP Company utilizes a near infrared laser (Nd:Yag) in-house for product development. The results of laser marking can vary widely among products; our ability to pre-test your formulation saves time and ensures the mark meets your expectations.

RTP Company compounds and masterbatches are custom formulated, colorable, and optimized to your choice of laser technology. Appropriate resins and additives are selected by our experts to help you achieve the precise laser marking results your application requires. Our Research and Development engineers have created an industry-leading portfolio of Laser-Markable Compounds... available from RTP Company - your global compounder of custom engineered thermoplastics!



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LASER-MARKABLE COMPOUNDS

ANSWERS TO FREQUENTLY ASKED QUESTIONS

Q: How long do laser marks last?

A: Laser marks are more durable and longer lasting than other means such as labeling or pad printing.

Q: What polymers and color combinations are available?

A: Light and dark marks are available on a variety of different custom colored compounds. Your local RTP Company Sales Engineer can help guide you in selecting the appropriate combination.

Q: Can a laser produce a bright white or dark black mark?

A: Lasers are capable of producing light or dark marks. However, producing a bright white or a deep, jet black depends on the resin, part color, and composition of the material/part. Improvements in the contrast between the compound and laser mark color can often be obtained by utilizing RTP Company additive technology. The overall goal is to meet your expectation for mark quality and contrast.

Q: Can RTP Company provide FDA or Biocompatible Laser-Markable Compounds?

A: Yes. RTP Company can provide Laser-Markable Compounds that have been formulated with FDA or Biocompatible ingredients.



RESINS THAT CAN BE LASER MARKED

BASE RESIN	RTP SERIES
Polypropylene	RTP 100 Series
Nylon	RTP 200 Series
Polycarbonate	RTP 300 Series
Acrylonitrile Butadiene Styrene	RTP 600 Series
Polyethylene	RTP 700 Series
Acetal	RTP 800 Series
Polysulfone	RTP 900 Series

BASE RESIN	RTP SERIES
Polybutylene Terephthalate	RTP 1000 Series
Polyurethane Thermoplastic Elastomer	RTP 1200 Series
Polyphenylene Sulfide	RTP 1300 Series
Polyethersulfone	RTP 1400 Series
Acrylic	RTP 1800 Series
Polycarbonate/ABS Alloy	RTP 2500 Series
Olefinic Thermoplastic Elastomer	RTP 2800 Series



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