



*Excellence in Color*

# Chroma Microtaggants

## Covertly identify your product with Chroma Microtaggants

- Identify Authenticity and prove year of manufacture for warranty claims
- Audit vendors to verify correct resin was utilized
- Develop replacement parts that would “activate” dispenser only when these products were inserted.
- Protect your intellectual property



### Overview

The Microtaggant Identification Particle is a microscopic, traceable, anti-counterfeit technology that is highly versatile in its use and application. Each code particle is made of multiple colored layers which translate to a unique numeric code sequence with millions of code sequences available.

### Performance

There are a wide variety of energy sensitive taggant technologies that can be incorporated in Microtaggants. Other nano / taggant technologies offer only a single level of authentication through visual, spectral or other analytical methods. Microtaggants can be stable at 450C for extended exposures. (Standard Microtaggant stable to 350C for short exposures) Microtaggants are also Bio Compatible and meets the standards for ISO 10993.

### Use Requirements

Chroma Microtaggants are formulated as a 100/1 concentrate and the minimum order is 2,000#

### Product Trials

Test code materials are available to trial to verify performance in the end use application. After verification, a specific color coded sequence can be registered to your company.

### The Challenge

Challenge Chroma to demonstrate how our commitment to **EXCELLENCE IN COLOR** can make a meaningful contribution to the success of your business.

#### Chroma Corporation

ISO 9001:2000 Registered

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# Technical Specifications

## Chroma Microtaggants

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## Product History and Information

### HISTORY

In 2007, Chroma Corporation formed a strategic partnership with Microtrace to better, meet your security needs. Microtrace provides identification, authentication and security solutions to companies and organizations worldwide, including foreign and domestic government agencies. First engineered by 3M, the Microtaggant® as originally developed for the post detonation tracing of explosives. Since acquiring the Microtaggant technology in 1985, Microtrace has refined and enhanced it for use in a wealth of applications. The inclusion of the Microtrace Microtaggant technology in compounded plastic resins allows for a variety of solutions to address various issues including: counterfeiting, product diversion, product liability/ warranty concerns, and tracing.



### PRODUCT INFORMATION

The Chroma Microtaggant Identification Particle is a microscopic, traceable, anti-counterfeit technology that is highly versatile in its use and application. Some of its characteristics include that it is composed of durable, inert plastic material. Multiple “energy sensitive” taggant technologies may be incorporated into the Microtaggant structure. The Chroma Microtaggant technology is undetectable to the untrained/ unaided eye and can be added to pigmented or clear compounded resin. After particles are located with a UV light, the color code can be read using a microscope with at least 100X magnification. Multiple nano/taggant technologies maybe incorporated providing multiple levels of security. Ability to utilize multiple codes for different usages (i.e. batch, distributor, shift, etc.). A number of codes limited only by the minimum quantity of compounded plastic resin. A Chroma Microtaggant Identification Technology can customize a pattern that can be recognized and utilized as a unique “fingerprint” on each

**To see if Chroma Microtaggant Technology can authenticate your product, or to obtain further information on any of our products and services, please contact us.**



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