

# General Product Information

## Medical Devices, Disposables & Packaging



Exactly your chemistry.

Clariant offers the medical industry a combination of market knowledge, best in class formulation know-how and global network of ISO-9000 facilities. Clariant offers strict manufacturing practices of its color and additive concentrates for plastics. These measures allow the Medical Devices, Disposables and Packaging industries a more secure, performing, rapid and effective way to color and enhance the plastics resins it uses.

### Maximizing your Operational Benefits

- Careful selection of raw materials from reputable suppliers to ensure consistency, repeatability and reliability
- Clariant manufacturing systems provides lot traceability of raw materials throughout the manufacturing process
- Colorant raw materials are chosen and tested for minimizing color changes after ETO and/or Gamma Sterilization
- With Clariant's ColorWorks product development centers located in Asia, Europe and North America, Clariant can simulate the behavior of the color for the chosen polymer and predict its compatibility
- When faced with the resin manufacturers shrinking product grades, Clariant brings expertise in handling conversion projects to Natural resin plus Masterbatches, This is an efficient and perfect solution to minimize costs, time needed for material approval and better utilize your resources to developing products instead of qualifying new colored resins.

### What it means?

Your products go from conception to market at a much faster rate, since the doubts are removed from the color and additive process. From formulation to manufacturing Clariant systems ensures the functionality of our products so that they perform consistently time after time.

### Ensuring regulatory compliance

- Clariant proposes a range of USP Class VI Remafin standard colors for the Medical devices made of PE, PP and Thermoplastic Elastomers. Our Remafin range is formulated with raw materials that have been through USP Class VI testing, minimizing the guesswork. Clariant can also match custom shades that are USP Class VI approved for Polyolefins, Styrenics and engineering resins. This is unique proposal for the medical plastic industry
- Clariant's extensive additive knowledge allows for the innovative use of products for limiting the formation of bacteria on hospital and diagnostic equipment. Clariant's Alphasan product is FDA registered,
- Contamination occurring in the manufacture of color concentrates can lead to serious problems and uncertainty. At Clariant, we have implemented GMP in selected facilities. Part of our GMP, we have segregated our manufacturing equipment, so that it is 100% dedicated to the production of products for the medical and pharmaceutical device industries.
- In addition, Clariant has 12 ISO 9000 plants in North America, as well as another 40 worldwide
- Clariant adheres to a strict discipline with regards to not changing raw materials sources under any condition, without first discussing the reason for the change with the customer. Whether your product is standard or custom, you can expect the same formulation time after time.

[www.clariant.masterbatches.com](http://www.clariant.masterbatches.com)

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**What it means?**

**Safe products made under the strictest regulatory guidelines in the medical plastic industry**

**Clariant's leading position as a specialty chemical manufacturer**

- Clariant has well over 100 years of history and experience in the manufacturing of specialty chemicals. Among other products, Clariant manufactures intermediates for the pharmaceutical industry.
- Clariant was created from the strong traditions of Sandoz and Hoechst
- As unlikely as it can be, you can rest assured that should a problem arise with a product, Clariant is a \$10 billion company, the largest specialty chemicals company in the world. It thus has the means to back up its product fully
- Clariant is a reputable supplier who is committed to the medical industry and has made success in this industry one of its objectives. You can rest assured that all that can be done will be done to ensure that you can rest easy by entrusting your requirements for color and additives to Clariant

**Natural +**

Natural + coloring is the use of masterbatches with natural resins instead of using pre-colored resins. Many plastic processors already elect to color natural resin (PS, ABS, PC, PC/ABS, PUR, PA etc.) with masterbatches for their manufacturing operations rather than purchase quantities of precolored resin – which can lead to excess inventories and obsolete colors. Still, some processors have the misconception that natural + coloring results in increased manufacturing responsibilities.

Clariant can show you that the benefits far outweigh the responsibilities. The key advantages for coloring natural resin with Clariant masterbatches are:

- Significant coloring costs advantages
- Avoidance of obsolete colors
- Production flexibility, with shorter lead-times for color delivery
- Minimal investment
- Ability of the molder to leverage natural resin purchases and obtain the lowest possible cost
- Less cleaning of drying and conveying equipment because color is added at the machine

**Applications of Clariant products**

Color and additives for

- Medical Devices
- Medical Disposable products
- Medical Device and Pharmaceutical Packaging

**Contact the Expert**

Entrust Clariant to bring solutions to your business. Our products are formulated to streamline business practices – to save time, paperwork and bring products more quickly to market in a safe environment.

Clariant masterbatches are manufactured under the best practices in the business.