Laser Marking Technology for Medical Device Applications

LazerMed™ laser marking additive technology offers a permanent, easily readable, biocompatible, and eco-friendly alternative to solvent based printing technologies for medical device applications.

LazerMed™ laser marking technology provides for ultra-fast printing that is eco-friendly (no solvents), with no pre-treatment of substrates required. In addition, there are no consumables (inks) involved, as the laser marking pigments are melt blended into the polymer at the compounding stage. This proprietary technology has no effect on the sterilization process and can be added to a polymer as a masterbatch. The result is a permanent solution that can be used for injection molded, extruded, and blow molded components.

Laser marking is a contact-free process that uses an actual laser to mark on a polymer substrate. The laser discolors the media (pigment) which creates contrast without affecting the material that is being marked.

LazerMed™ technology is manufactured using state-of-the-art laser marking pigments. These pigments provide a versatile printing platform that can be used in the vast majority of polymeric materials, including transparent and opaque materials, used in medical device applications. LazerMed™ laser marking pigments are weather durable, available for high temperature applications, and have passed USP Class VI testing for biocompatibility.

Features and benefits of using LazerMed™ laser marking additive technology include:

PERMANENT AND DURABLE

Virtually indestructible

Weatherable

SAFE AND ENVIRONMENTALLY FRIENDLY

No solvents

Metal free pigments

Biocompatible

Non-toxic

No consumables

EASILY READABLE

Excellent resolution in transparent and opaque materials

EFFICIENT

High speed

No pre-treatment

Works in low pigment concentrations

DESIGN FLEXIBILITY

Usable on soft, irregular, or curved surfaces

Can be used in a wide variety of polymers and production processes

Minimal effect on physical properties of the host polymer

NO EFFECT ON STERILIZATION

Application use segments include labeling, barcoding, tracking, identification, and traceability and any number of medical device applications including catheters, labware, medical bags, fluid management, imaging/radiology, medical equipment as well as many more.

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