

LazerMed™

Laser Marking Technology for Medical Device Applications

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

LazerMed™ laser marking technology provides for ultra-fast printing that is solvent free 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. Our proprietary technology integrates seamlessly into polymers without affecting material properties, processing, or sterilization, and can be incorporated as a masterbatch for effortless implementation. 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
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 processess
Minimal effect on physical properties of the host polymer

NO EFFECT ON STERILIZATION

Application use segments include labeling, barcoding, tracking, identification, and traceability for a wide range of medical device applications including catheters, labware, medical bags, fluid management, and imaging/radiology.

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