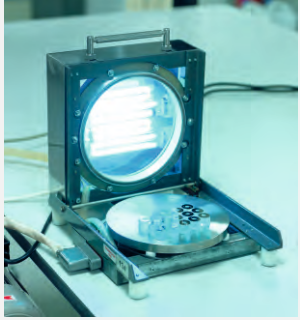


Post UV Curing,
Finalize frontal UV curing process

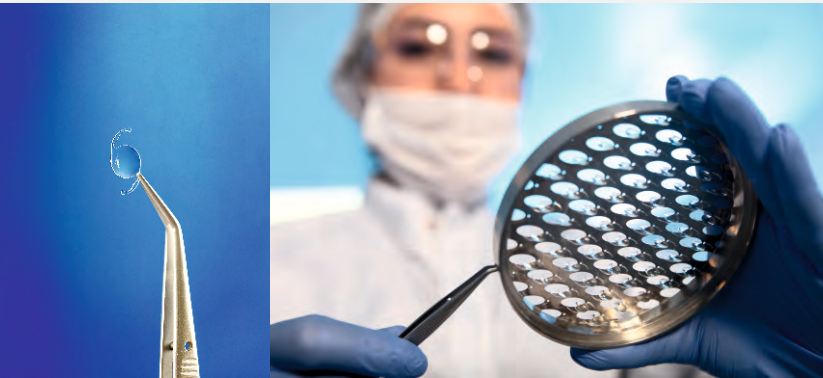
Deblocking;
Removes semi finished
product from optical molds



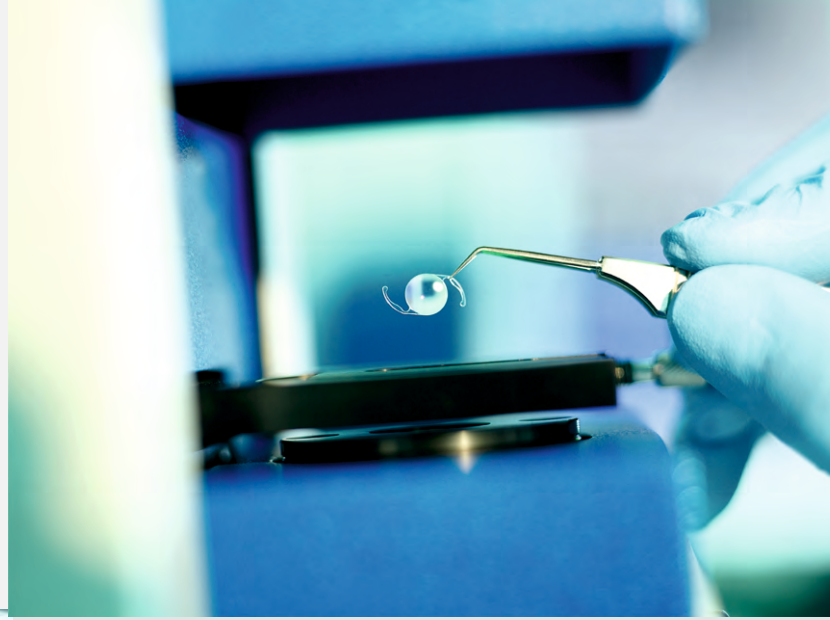
Soxhlet Extraction;
Removes all chemical residues from product



Quality Control;
Inspection of products according to related standards



Optical Measurement;
Power measurement of product



Labeling; Barcode labeling for traceability.
Sterile Packaging; Sterile packaging process for EO
Sterilization; EO Sterilization cycle
Secondary Packaging; Foldable box secondary packaging process.



PRODUCTION TECHNOLOGY

Customer
Information
Document



IOLstar
MATERIALS AND TECHNOLOGIES

IOLstar
MATERIALS AND TECHNOLOGIES

ANADOLU OPTOMEKANİK TEKN. SAN. TİC. A.Ş.
Ahmetturan Gazi OSB Mah. OSB 5'1. Cd. No:10 SİVAS - TÜRKİYE
Tel: +90 (346) 218 14 18 (pbx) Fax: +90 (346) 218 14 20
www.iolstar.com info@iolstar.com



**Production Technology
Used for
Built and Set-up Timeline**

: Frontal UV Curing, Photopolymerization
: Medical Implants; IOLs, Shunts, Meshes and etc.
: One Year

www.iolstar.com
info@iolstar.com

Secure and Safety Products

- With Millions of Intraocular Lenses (IOLs) produced and sold out over all the world.
- Premium IOLs made from specific high quality IOLStar Hydrophobic raw material.
- Unique production technology and raw materials offers the superior level of safety, comfort and long- term reliability.

100 % Hydrophobic

- 100 % Biocompatible raw material is suitable for manufacturing of IOLs and different kind of polymer implants.
- 100 % Hydrophobic IOLs never accept water inside-in chemical structure.
- 100 % Hydrophobic IOLs are ready for packaged in dry state.
- 100 % Hydrophobic IOLs have a cross-link structure and do not dissolve in any solvent.
- 100 % Hydrophobic IOLStar IOLs refractive index is 1.51 and allows to the best optical design.
- UV Block under 379 nm (blue block raw material is also available).

Biocompatibility¹

Fully biocompatible IOLStar raw material is exhibit the following features;

- Elicits no foreign body reactions.
- Accepted by the surrounding tissues.
- Has good compatibility with the capsular bag.
- Provides satisfactory vision over the lifetime of the patient without any further intervention.

¹ Biocompatibility of IOLStar test reports available according to ISO-10993. ² Glistening study test report is available and material is called as "Glistening free" product.

Glistening Free²

- Unique composition of IOLStar hydrophobic raw material allows uniform hydration of specific sites to have controlled water uptake and resistance to glistening formation.

Advantages of Production Methodology

- Low raw material consumption.
- All in one process (from liquid raw material to finished product).
- 3x better surface quality against to lathing process.
- Scratch free IOL surface.
- No need any additional polishing process.
- Low reject rate.
- Allows "mixed power" production.
- Easy to increase production capacity.

Unique Production Equipments

- Hydrophobic IOL raw material
- Optical mold pairs
- Raw material dosimeter
- Photopolymerization system
- Ultracentrifuge system
- Post UV curing system
- Soxhlet extraction system

Recommended Minimum Capacity

230.000 units product (% 15 reject rate) in one shift with 14 qualified production people.³

- 1 set of raw material dosimeter
- 4 sets of photopolymerization system
- 2 sets of ultracentrifuge system
- 2 sets of post UV curing system
- 1 set of soxhlet extraction system

³ [1.000 IOLs per day X 22 days in a month X 12 months] / 1.15

Production Flow Details

Optical Molds; Prepare optical molds for production cycle



Raw Material Dosimeter; Drops raw material inside optical mold pairs



Photopolymerization; Performs frontal UV curing process



Ultracentrifuge; Develops semi finished product

