MANUFACTURERS OF STERILIZATION PACKAGING

REELS, POUCHES & HEADER BAGS

Terramica™

Energy Efficient, Sustainable & Cost Effective

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About Us

Terramica Ceramics & Automation India Pvt Ltd was incorporated on 18th February, 2018. The company specializes in the manufacturing of sterilization reels and pouches, Tyvek reels and pouches and Sterilization Header bags. The company is equipped with highly efficient automated machinery for the production of the sterilization reels and pouches. The safety standards required during the production are strictly followed with regards to high product quality and maximum efficiency.

Company Profile

We as a company specializes in offering customized solutions to CSSD in hospitals and medical device manufacturers for their sterilization packaging requirements.

Range Of Products

- Sterilization Reels (CPP/PE, PET/PE)
- Sterilization Pouches (CPP/PE, PET/PE)
- Tyvek® Reels & Pouches (1073B/1059B)
- Coated Tyvek® Header Bags

Packaging materials and seals should have the following general characteristics

- Allow the sterilizing agent to penetrate and reach all surface areas of the item(s) to be sterilized.
- Maintain the sterility of the item up until its use; perform as a reliable barrier to microorganisms.
- Permit the package to be opened in an aseptic manner that allows for sterile items to be easily removed or transferred to the sterile field without contamination.
- Conform to the size and shape of the item(s).
- Cover the contents in their entirety.
- Provide for maximum amount of use.
- Allow air to be completely removed during the sterilization process.
- Withstand the physical conditions produced by the autoclave, including moisture, pressure and high temperatures.
- Be permeable to the sterilizing agent and moisture.
- Allow the escape and removal of the sterilizing agent at the end of the sterilization process.

Packaging materials and seals should have the following general characteristics:

- Allow the contents to be dried after sterilization with no presence of moisture. The packaging material must also have the characteristic of being able to be dried to avoid wet packages upon removal from the sterilizer. This is particularly important when using ethylene oxide sterilization, since water combined with EtO can produce toxic byproducts.
- Allow ethylene oxide gas and moisture to escape during the aeration cycle, when using ethylene oxide sterilization.
- Provide a barrier to the penetration of dust and particles, and resist moisture penetration.
- Woven fabrics should be lint free and also free of loose fibers.
- Must not contain any toxic material or dyes that could produce a chemical reaction during the sterilization process. The toxic residue could be harmful to the patient and the members of the surgical team, who are handling the packaging material, and sterile team members, who are handling the contents.
- Promote integrity of the seal that is used to secure items, so that content sterility is maintained. The seal should not spontaneously open, when the package is in sterile storage.
- .Incapable of being re-sealed, once the seal is broken or package is opened.

Sterilization Method	Packaging Material Requirements	Acceptable Materials
Steam autoclave	• Should allow steam to penetrate	• Paper • Plastic • Cloth • Paper/plastic peel packages • Wrapped perforated cassettes
Dry heat	• Should not insulate items from heat • Should not be destroyed by temperature used	• Paper bags • Aluminium foil • Polyfilm plastic tubing • Wrapped perforated cassettes
Unsaturated chemical vapor	• Vapors should be allowed to precipitate on contents • Vapors should not react with packaging material • Plastics should not contact sides of sterilizer	• Wrapped perforated cassettes • Paper • Paper/plastic peel packages

Sterilization Reels (Hospital Reels): Flat & Gusseted

Made of 60/70 gsm uncoated medical grade paper or Tyvek and sealed to a transparent laminated film. Compatible for Steam (autoclave), EO & Plasma Sterilization processes. Conforming to EN 868 -5 and EN ISO 11607-1 standards. Available in widths ranging from 50mm up to 500mm and in lengths of 100 meters or 200 meters. Superior seal strength and excellent peel ability. Printed with Steam & EO or Plasma sterilization process indicators. Suitable for CSSD in hospitals.

SL NO	MODEL NO	WIDTH (MM)	LENGTH (M)	REELS/CTN
1	TM-SR-5	50	200	6
2	TM-SR-7.5	75	200	4
3	TM-SR-10	100	200	4
4	TM-SR-12.5	125	200	3
5	TM-SR-15	150	200	2
6	TM-SR-20	200	200	2
7	TM-SR-25	250	200	1
8	TM-SR-30	300	200	1
9	TM-SR-35	350	200	1
10	TM-SR-40	400	200	1

3-Side Sealed “Chevron” Pouches

Made of uncoated or coated medical grade paper or Tyvek and sealed to transparent laminated film Compatible for Steam, EO and Plasma sterilization processes. Conforming to EN standards. Suitable for medical device manufacturers. Custom sizes. Pre-printed and plain. With & without sterilization indicators. All process indicators are water based and non-toxic inks and meet or exceed the requirements of ISO 11140-1 standard and provide accurate and clear color change after sterilization process.

Packaging is an important step in the sterile processing of reusable medical devices. Sterilization packaging must:

- Allow sterilization of enclosed devices.
- Maintain sterility until opened.
- Provide for aseptic delivery.

Sterility maintenance or dust covers are protective plastic bags used to help maintain the sterility of an item by protecting it from the environment.

Self Seal Pouches

Self-Seal Sterilization Pouches are intended for use at steam, ethylene oxide and steam sterilizers and provide an effective and safe solution against recontamination after sterilization, Made of 60 / 70 gsm medical grade paper sealed to transparent laminated film. 3-side sealed with “chevron” seal. 4th open side with strong double-sided adhesive tape for easy closure. No need for sealing machine. Compatible with Steam & EO Sterilization processes. Printed with sterilization process indicators, Suitable for dentists and small clinics.

Water based, non-toxic process indicators for steam and ethylene oxide indicators complying with ISO 11140-1 are applied on the paper surface and help to differentiate between processed and unprocessed packages.

Header Bags

When your medical device requires a film-film package or foil pouch, header bags made with DuPont™ Tyvek® provide a solution for enabling ethylene oxide (EO) sterilization.

Made of multilayer transparent film. Sealed on one side with coated / uncoated Tyvek® for sterilant permeability. Easy peel-off. Compatible with EO and Gamma sterilization processes. Suitable for bulky items like procedure kits, trays, tubing's, drapes and gowns etc. Easy to transport.

Header bags made with Tyvek® enable EO sterilization of medical devices within film-film packages and foil pouches because Tyvek® allows the moisture and heat from EO sterilization to pass in—and out—of the package.

Our Production Facilities & Capabilities

- Combined production area of 3200 ft²
- ISO 13485:2016, FDA approved as per GMP norms facility
- Qualified, experienced and dedicated work-force ensure quality and service.
- In-house, slitting, printing, folding, stitching, packing & testing facilities.
- Manufacturing on own brand name as well on OEM basis.
- Contract packaging capability for device manufacturers for custom packs on OEM basis.
- Sterilization by EtO and Gamma Irradiation under Loan License with Microtrol (A state-of-art contract sterilization company) in Bangalore.
- Long-term strategic tie-ups with raw-material suppliers to ensure timely supplies and consistent quality at reasonable prices.

CONTACT US

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