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Sterile Medical Packaging Market - Forecasts from 2020 to 2025

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Abstracts

The sterile medical packaging market is projected to grow at a CAGR of 5.43% to reach US$29.505 billion by 2025 from US$21.484 billion in 2019. Increasing concerns of the market players are making them adopt and use advanced packaging solutions in order to avoid contamination and keep the consumers and end-users free from harm. Proper and effective packaging is an essential step and process in the medical and healthcare industry in order to minimize the chances of contamination of instruments and medical equipment that is about to be packed so that diseases are not spread. In addition, many of the market players, in order to prevent the entry of bacteria during the sterilization process which takes place before the packaging is done, are using a safer practice such as installing HVAC systems equipped with technical and advanced grade HEPA filter to keep the contaminants such as bacteria and viruses out of their facilities. Thus, this is leading to a surge in the demand for sterilization medical packaging products and is fueling the market growth over the forecast period.

The increasing participation of agents and organizations in setting guidelines in order to tackle the problem of contamination during the packaging process and the strict rules that must be complied with during the packaging of medical materials.

There is a presence of stringent guidelines by different organizations. For example, The Association of Surgical Technologies (AST) put forward some SOP’s (Standards of Practice) that were researched and authored by the AST Education and Professional Standards Committee and were approved by the AST Board of Directors and made effective from October 19, 2009. These standards were developed to provide support of the healthcare facilities in the reinforcement of the most effective and best practices in regard to the material to be used for sterilized packaging of items. These standards provided so as to make the healthcare facilities aware that they were responsible to

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facilitate the development, approvals, policy formation for evaluation of the sterilization packaging materials. These standards included the following practices. The Standard of Practice I, was the proper evaluation prior to the adoption and purchase, which included the proper testing of the packaging materials so that they are able to meet the performance standards which were the sterilization should be able to not deteriorate till the end of the product use. The package can easily be opened via aseptic methods without contamination. The contents must be covered properly and completely. The package must be resistant to punctures and other problems. The packaging materials must not contain and be made of toxic materials, among other standards.

Some of the other standards of practices were that the reusable packaging materials should be laundered, inspected and properly stored so as to preserve the packaging properties. Paper-plastic peel pouches or peel packs must be used only for the sterilization packaging for small items only, and in the case of the wrapped packages, they must be prepared to facilitate the ease of opening the package and transferring to the sterile field wherein the sterile conditions must be maintained among some other standards of practice. In addition, the Food and Drug Administration (FDA), classifies the products and materials that are used for packaging the medical materials using sterile methods according to Class II performance standards. In conjunction, it provides some steps, and regulations under the Sterilization Process Controls, which include some of the inspectional objectives, which must be carried out to ensure, the methods being used are proper and are properly validated. The importance and the purpose of this process control subsystem is to manufacture products that meet the regulations and specifications. For the sterilization processes, the primary device specification used is increasingly desirable and suitable and called the Sterility Assurance Level (SAL). Other specifications include sterilant residue levels and the levels of endotoxins. Therefore, the demand for sterilization medial packaging solutions to avoid penalties and is leading to a boost in the market growth.

Product Offerings by Major Market Players

The better, advanced and diverse varieties of Sterilization Medical Packaging products with enhanced properties that are able to effectively prevent contamination and spread of diseases to the end-users. These products are being offered by existing and new players in different markets is estimated to lead to increased adoption and propel the market growth further over the forecast period.

Some of the examples of the product offerings are as follows:

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The North American region to hold a considerable share over the forecast period and the Asia Pacific to increase its share

The increasing investments in the R&D of better sterilization medical packing solutions and products to cater to the increasing demand from the end-user industries coupled with the well-established medical facilities and healthcare industry and the flourishing packaging industry in the countries such as the U.S.

In addition, the Asia Pacific region is expected to hold a considerable share and increase its share over the forecast period, which is attributable to the fact that there are increasing effort being made in form of product launches and investments in order to improve the standing of packaging and medical industry.

Segmentation:

By Product Type

Clamshells

Pouches

Bottles

Blisters and Ampoules

Wraps

Others

By Material Type

Plastic

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Polyvinyl chloride (PVC)

Polypropylene (PP)

Polyethylene (PE)

Others

Glass

Borosilicate

Soda-Lime-Silica Glass

Metal

Tin

Aluminum

Lead

By Sterilization Method

Chemical

Ethylene Oxide

Hydrogen Peroxide

Formaldehyde

Others

Radiation

Ionization radiation

Non-Ionization radiation

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France

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