


Multi-Layer Films

Adhesive Tie-Layer for Multi-Layer Films

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In order to meet rising hygiene standards as well as retain the freshness of food products for a longer period, the food packaging sector is always on the look-out for new packaging materials and technologies. Today, multi-layer films are preferred over single-layer packaging due to several factors. Read on to know more...

With rising demand for packaged food, the use of multi-layer films for various packaging needs has become a growing trend. This is because the materials used for food packaging should have the required qualities to keep the food fresh and prevent contamination. The packaging material should have adequate strength; it should be able to preserve food products from external conditions and this requires barrier properties to prevent exposure to moisture, oxygen, light, contaminants, chemicals, etc., to retain the color and flavor of food.

Packing sealability is essential to ensure proper storage of food products. At the same time, the package should be attractive and appealing to the customer, and for this it is important that the printed ink on the material surface be protected from abrasion and have a certain rigidity to maintain a quality image of the product.

Moreover, the package should be machineable by high-speed processing machines; convenient to use, economical and meet the food safety standards. A single layer of material rarely meets all the requirements of a packaging design. Thus, multi-layer packages are being used.

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Applications of multi-layer films

Multi-layer films are primarily used in the food packaging industry. The applications can range from packaging for industry such as shrink wrap, container liners, bag film, stretch film to packaging for consumers such as frozen product packaging film, shrink wrap for transportation of goods, film wraps for food and seal packaging. These films are also used in lamination to provide barrier properties to food articles (typically ethylene vinyl alcohol (EVOH) and polyamides (PA) are used here), medical product packaging, and packaging for the agricultural industry.

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
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When it comes to multi-layer packaging films, the main objective is to manufacture a single structure of multiple layers that combine the properties of the different base materials, which will in turn meet the requirements predicated by the design, for instance ensuring barrier to oxygen and moisture required primarily by the food packaging industry.

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
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