

Review

Protein-Based Packaging Films in Food: Developments, Applications, and Challenges

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Abstract: With the emphasis placed by society on environmental resources, current petroleum-based packaging in the food industry can no longer meet people's needs. However, new active packaging technologies have emerged, such as proteins, polysaccharides, and lipids, in which proteins are widely used for their outstanding gel film-forming properties. Most of the current literature focuses on research applications of single protein-based films. In this paper, we review the novel protein-based packaging technologies that have been used in recent years to categorize different proteins, including plant proteins (soybean protein isolate, zein, gluten protein) and animal proteins (whey protein isolate, casein, collagen, gelatin). The advances that have recently been made in protein-based active packaging technology can be understood by describing protein sources, gel properties, molding principles, and applied research. This paper presents the current problems and prospects of active packaging technology, provides new ideas for the development of new types of packaging and the expansion of gel applications in the future, and promotes the development and innovation of environmentally friendly food packaging.

Keywords: active packaging; protein-based film; gel film; performance characteristics; applied research

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1. Introduction

Product packaging is important in the food industry to extend the shelf life of perishable food such as vegetables, fruits, and meat, as well as to ensure their nutritional value and safety. Product packaging is particularly important. At present, packaging materials are still dominated by synthetic plastic films made from petroleum. Polymeric materials consisting of polyethylene, polypropylene, and polyethylene terephthalate are widely used for food packaging. These films have the advantages of low cost, good gas, and liquid barrier properties, and high durability. However, since petroleum is a non-renewable resource, long-term use exacerbates the consumption of resources, the carbon-carbon bonds in the petroleum base make this packaging non-degradable, and overuse cannot be mitigated in a short period of time, causing a serious burden on the natural environment. It is estimated that approximately 8 MMt of plastic packaging is discharged into the ocean each year because it cannot be disposed [1]. As it is discarded anywhere and is primarily white in color, it is also known as “white pollution”. At present, the main methods to deal with waste packaging are still incineration and landfill. However the former produces a large amount of carbon dioxide and other harmful substances,

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