

A Convenient Fresh-Keeping Choice: The Prominent Advantages and Promising Prospects of PE cling Film

Rizhao, Shandong Jan 19, 2026 ([IssueWire.com](https://www.issuewire.com)) - As an indispensable fresh-keeping material in daily life and industrial production, PE (Polyethylene) cling film has become the preferred choice for food preservation and item protection due to its excellent barrier properties, good flexibility, and affordable cost-performance ratio. It can not only effectively lock in moisture and isolate oxygen to extend the shelf life of ingredients but also features easy tearing and strong adaptability, being widely used in multiple scenarios such as households, catering, and logistics. With the upgrading of environmental protection concepts and technological innovation, PE fresh-keeping film is steadily developing towards greenization and functionalization, with sustained release of market potential.

1. Excellent Performance, Adapting to Diverse Fresh-Keeping Needs

PE cling film, with polyethylene as the main raw material, possesses outstanding physical and chemical properties that can accurately meet the fresh-keeping requirements of different scenarios. In terms of barrier performance, it can effectively block the intrusion of air, moisture, and microorganisms, delaying the oxidative deterioration of food. Whether it is maintaining the moisture of fresh fruits and vegetables or preserving cooked food against corrosion, it can play a significant role. Its good flexibility and ductility allow it to closely adhere to the surfaces of various containers—whether irregular tableware, ingredients, or product packaging in industrial production—achieving seamless wrapping and avoiding fresh-keeping failure caused by gaps. Meanwhile, PE fresh-keeping film is thin and lightweight with high transparency, facilitating the observation of the wrapped items. It is also easy to tear and convenient to use without the need for complex tools, greatly improving usage efficiency. In addition, it has a certain temperature resistance, being suitable for various usage scenarios such as refrigeration and microwave heating, further expanding its application scope and becoming an essential consumable in home kitchens, catering industries, and food processing enterprises.

2. Safe and Environmentally Friendly, Aligning with Healthy Consumption Trends

In the context of increasing health awareness, the safety and environmental friendliness of PE cling film is produced using food-grade polyethylene raw materials, free of harmful plasticizers, heavy metals, and other substances. It meets national safety standards for food contact materials and will not release toxic or harmful substances during use, effectively ensuring food hygiene and human health. Compared with traditional fresh-keeping materials, the degradability of PE fresh-keeping film has been continuously improved. Some products have achieved gradual degradation in the natural environment through technological modifications, reducing the impact of white pollution on the ecological environment. At the same time, PE material itself is recyclable; through recycling and reprocessing, it can be made into other plastic products, realizing resource recycling. As consumers' attention to food safety and environmental protection continues to rise, safe and environmentally friendly PE fresh-keeping film will gain broader market space and become the mainstream direction of industry development.

3. Wide Applications, Penetrating Multi-Field Development

The application scenarios of PE cling film have gradually expanded from traditional home food preservation to multiple fields such as catering, food processing, logistics and transportation, medical care, and electronics, with sustained growth in market demand. In the catering industry, PE cling film is widely used in links such as ingredient storage, food sample retention, and takeaway packaging, which

can not only ensure food freshness but also improve packaging hygiene. In the food processing industry, it can be used for the fresh-keeping packaging of semi-finished and finished products, extending the product shelf life and reducing losses. In the logistics and transportation field, relying on its good winding and protective properties, PE fresh-keeping film can be used for cargo fixation, moisture prevention, and dust prevention, ensuring the integrity of goods during transportation. In the medical field, sterile PE fresh-keeping film can be used for the temporary protection and packaging of medical devices. In the electronic field, it can provide moisture-proof and anti-static protection for electronic components. With the continuous improvement of fresh-keeping and protective needs in various industries, the application scenarios of PE fresh-keeping film will be further enriched, and the market scale will continue to expand, injecting strong momentum into industry development.

4. Technological Innovation, Driving Industry Upgrading and Development

Technological innovation is the core driving force for the sustainable development of the PE cling film industry. In recent years, the industry has made remarkable progress in material improvement, functional upgrading, and production process optimization. In terms of materials, by adding components such as nanoparticles and antibacterial agents, PE cling films with antibacterial, bacteriostatic, and high barrier properties have been developed, further enhancing the fresh-keeping effect and product added value. In terms of functions, multi-functional PE fresh-keeping films, such as microwaveable, degradable, and reusable, have emerged continuously, meeting the diverse usage needs of consumers. In terms of production processes, the adoption of new extrusion and film-blowing technologies has improved the thickness uniformity, transparency, and tensile strength of products while reducing production costs. At the same time, the application of intelligent production equipment has realized automated and precise control of the production process, improving production efficiency and product quality stability. In the future, with the continuous emergence of new materials and technologies, PE fresh-keeping film will develop towards a more efficient, environmentally friendly, and multi-functional direction. The overall competitiveness of the industry will be further enhanced, presenting broad development prospects.

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