

# NEWSLETTER

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MANUFACTURING

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*Packaging News* ➤

## Polyethylene (PE) vs Polypropylene (PP)

Polyethylene (PE) and Polypropylene (PP) are two of the most commonly used plastics in the world. They are both thermoplastic materials, meaning they can be melted and reformed multiple times without significant loss of properties. However, there are some important differences between the two materials that are worth noting:

1. **Chemical structure:** PE and PP are both members of the polyolefin family of polymers, but they have different chemical structures. PE is made up of long chains of ethylene monomers, while PP is made up of long chains of propylene monomers. This difference in chemical structure gives the two materials different physical and mechanical properties.
2. **Density:** PE is less dense than PP. This means that it is lighter and more flexible than PP. PP, on the other hand, is more rigid and has a higher melting point than PE.
3. **Strength and stiffness:** PP is generally stronger and stiffer than PE, making it a better choice for applications that require high strength and rigidity, such as automotive parts, containers, and packaging.
4. **Chemical resistance:** PP has better chemical resistance than PE, particularly to organic solvents, acids, and bases. PE is more resistant to water and has better electrical insulation properties.
5. **Cost:** PE is generally less expensive than PP, making it a more cost-effective option for certain applications.

Overall, the choice between PE and PP depends on the specific application requirements, including factors such as strength, stiffness, chemical resistance, and cost.

## PP Singlet Bag

Sizes : 12" x 13"

15" x 16"

18" x 22"

20 x 25"

\*available for printing/customize

**crystal clear**

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Selamat Hari Raya  
**Aidil Fitri**  
Mohon Maaf Zahir & Batin

## Plastic Packaging Companies See Opportunities for Growth

April 14, 2023

Kenanga Research has predicted that the plastic packaging sector in Malaysia will be able to withstand the impact of a global economic slowdown, thanks to a decrease in input resin costs, easing labour shortage, and the shift of industry players towards higher-margin products. However, the research house believes that the sector, which relies heavily on exports, will face weaker sales volumes in the near future due to increasing competition from European manufacturers, who are benefiting from the sharp drop in gas prices.

While Malaysian manufacturers are contending with rising energy costs due to a recent hike in electricity tariffs, Kenanga Research believes that this can be managed as electricity only accounts for a small portion of total production costs. The research house has projected that local plastic packaging players will grow at a faster pace than the global market due to their aggressive expansion plans and the rising production costs of overseas manufacturers. These companies are also shifting towards higher-margin products to mitigate the impact of an economic slowdown.

Kenanga Research also noted that some local plastic packaging players have subscribed to Tenaga Nasional Bhd's Green Electricity Tariff programme, which provides additional support by exempting them from certain charges, resulting in savings. However, the programme has a quota and is only valid for a limited period of time. The researchers expect the market to record a compounded annual growth rate of 3.5% from 2022 to 2027.

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