

# Bottle Grade PET Chip WK-811

WK-811 is a kind of PET polymer material which is widely used in the bottles of hot-filling drinks. It is widely used in various mainstream bottle making machines. It is mainly used in the production of tea, fruit-juice, plant extract beverage, sauce/vinegar and other bottles which requires hot filling/sterilization process. It can meet the requirements of hot filling beverage which the filling temperature is below 90°C and ensure the original flavor of the packed food content. This product is in compliance with the regulations of China GB 9685, GB 4806.6, (EU) No 10/2011 and US FDA21 CFR177.1630.

## Features:

- Food grade PET
- Low AA content, good color, stable molecular weight, and distribution
- Excellent processing performance and compatibility
- Good production stability, high production efficiency and yield.
- High induced orientation rate, stable crystallinity, and stable heat shrinkage of the finished product



## Technical Data

Parameter	Unit	Value	Test method
<b>Intrinsic Viscosity</b>	dL/g	0.790±0.015	Q/WK007
<b>Acetaldehyde Content</b>	µg/g	≤1.0	Q/WK007
<b>Color (L-value)</b>	--	≥83.0	Q/WK007
<b>Color (b-value)</b>	--	≤-0.5	Q/WK007
<b>Peak Temperature when Melting (DSC by Nitrogen)</b>	°C	249± 2	Q/WK007
<b>Moisture Content</b>	%	≤0.20	Q/WK007

## Typical applications: Tea beverage bottles

WK-811 has good color, high melting point, stable thermal shrinkage rate of finished product and low AA content. It reaches the standard of hot can bottling packaging and can ensure the original taste of packaged food content. It is widely used in tea beverage packaging. Tea beverage bottles produced with WK-811 are not breakable, lighter, and recyclable than glass bottles.

## Production process introduction

- The product is kept in a complete package and stored in a dry indoor warehouse at room temperature and should not be exposed to direct sunlight. It is recommended to use it within 2 years, and it should be used immediately after opening the package.
- If the moisture in the product is not completely removed before processing, it will cause hydrolysis and reduce its molecular weight and reduce the performance of the final product.

Therefore, it is recommended that the product be dried at 160-180°C for 4-6 hours before processing is fully dewatered.

## Important Notice for Use in Processing



### Storage

The products shall be kept in a complete package, stored in a normal temperature and dry indoor warehouse, and shall not be exposed to the direct sunlight; Product has no expiry date, but it is recommended to use within 2 years, and it shall be used immediately after opening.



### Processing conditions

The product shall be fully dried before use. It is recommended to dry under 160-180°C hot air for 4-6 hours; Dew points no higher than - 40 °C; Melting temperature: 280-300 °C