

# BOTTLE GRADE POLYESTER CHIPS CZ-302L



## Product introduction

"JADE" Brand Copolyester "CZ-302L" bottle grade polyester chips are suitable for making the packing bottles for pure water、natural mineral water、distilled water、drinking water、flavoring and candy containers and PET sheet material etc. The Intrinsic Viscosity is a bit lower than "CZ-302" .

The brand of product features low heavy metal content、low content of acetaldehyde、good color value、stable viscosity. With a unique process recipe and advanced production technology, the product possesses excellent processing features, low processing temperature、wide scope in processing, excellent transparency and high in finished product rate. In making bottles, the product has a small degradation and low content of acetaldehyde. While ensuring safety and hygiene, it can effectively keep the respectively unique taste of purified water、mineral water and distilled water.

## Technical index

| Item                                   |   | Unit    | Index            | Test method           |
|----------------------------------------|---|---------|------------------|-----------------------|
| Intrinsic Viscosity<br>(Foreign Trade) |   | dL/g    | $0.760 \pm 0.02$ | ASTM D4603            |
| Content of acetaldehyde                |   | ppm     | $\leq 1$         | Gas chromatography    |
| Color value                            | L | —       | $\geq 82$        | HunterLab             |
|                                        | b | —       | $\leq 1$         | HunterLab             |
| Carboxyl end group                     |   | mmol/kg | $\leq 30$        | Photometric titration |
| Melting point                          |   | °C      | $243 \pm 2$      | DSC                   |
| Water content                          |   | wt%     | $\leq 0.2$       | Weight method         |
| Powder dust                            |   | ppm     | $\leq 100$       | Weight method         |
| Wt. of 100 chips                       |   | g       | $1.55 \pm 0.10$  | Weight method         |

## Typical processing conditions

Drying is necessary prior to the melt processing to prevent the resin from hydrolysis. Typical drying conditions are an air temperature of 160-180°C , 4-6 hours residence time, dew-point temperature below -40°C .

Typical barrel temperature about 275-290°C.