**POLYESTER CHIPS CZ-328**

**TECHNICAL DATA SHEET**

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**·**  Type

"JADE" Brand , Copolyester.

**·**  Description

"JADE" Brand Copolyester "CZ-328" CSD grade polyester chips are TPA-based polyethylene terephthalic copolymer. It features low heavy metal content, low content of acetaldehyde, good color value. Stable viscosity and good for processing. With a unique process recipe and advanced production technology, strengthening the process control and quality management, the product with excellent isolation property is effective in protecting the carbon dioxide from leaking, good in pressure resistance, low temperature processing, wide scope in processing, excellent in transparency, high in finished product rate and can effectively prevent bottles from breaking for the carbonated drinks which are in storage period and under pressure.

**·** Applications

It is a high molecular weight polymer for general use in manufacturing containers. It can be used in the production of making packing bottles for carbonated soft drink like cola and 3-gallon, 5-gallon big bottles.

**·** 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 165-185°C , 4-6 hours residence time, dew-point temperature below -40 ℃ .

Typical barrel temperature about 280-298°C.

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| --- | --- | --- | --- | --- |
| **No.** | **ITEMS DESCRIBE** | **UNIT** | **INDEX** | **TEST METHOD** |
| 01 | Intrinsic Viscosity (Foreign Trade) | dL/g | 0.850±0.02 | GB17931 |
| 02 | Content of acetaldehyde | ppm | ≤1 | Gas chromatography |
| 03 | Color value L | — | ≥82 | Hunter Lab |
| 04 | Color value b | — | ≤1 | Hunter Lab |
| 05 | Carboxyl end group | mmol/kg | ≤30 | Photometric titration |
| 06 | Melting point | °C | 243 ±2 | DSC |
| 07 | Water content | wt% | ≤0.2 | Weight method |
| 08 | Powder dust | PPm | ≤100 | Weight method |
| 09 | Wt. of 100 chips | g | 1,55±0.10 | Weight method |

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