

# BOTTLE GRADE POLYESTER CHIPS CZ-328



## Product introduction

"JADE" Brand Copolyester "CZ-328" CSD grade polyester chips are TPA-based polyethylene terephthalic copolymer. 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.

The brand of product 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.

## Technical index

Item	Unit	Index	Test method
Intrinsic Viscosity (Foreign Trade)	dL/g	$0.850 \pm 0.02$	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	$^{\circ}\text{C}$	$243 \pm 2$	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  $165-185^{\circ}\text{C}$ , 4-6 hours residence time, dew-point temperature below  $-40^{\circ}\text{C}$ .

Typical barrel temperature about  $280-298^{\circ}\text{C}$ .