



BOTTLE GRADE POLYESTER CHIPS CZ-333



Product introduction

"JADE" Brand homopolyester "CZ-333" bottle grade polyester chips have been developed and produced specially for hot-filling bottles according to that tea drinks, fruit-juice drinks and other medium type drinks require to be hot bottled for sterilization.

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, the product, when being thermoformed in SIPA, SIDEL, ASB etc. primary bottle-making machines under general conditions, has high tropism rate, stable crystallinity and good fluidity with low stress-releasing rate in the whole bottle, stable thermal contraction rate and high finished product rate in making bottles, can satisfy the requirement of being bottled at about 90℃ and protect drinks from discoloration or oxidization in storage period and prevent the deformation of the bottles.

Technical index

Item		Unit	Index	Test method
Intrinsic Viscosity (Foreign Trade)		dL/g	0.800 ± 0.02	GB17931
Content of acetaldehyde		ppm	≤ 1	Gas chromatography
Color value	L	—	≥ 82	HunterLab
	b	—	≤ 1	HunterLab
Carboxyl end group		mmol/kg	≤ 30	Photometric titration
Melting point		℃	250 ± 2	DSC
Water content		wt%	≤ 0.2	Weight method
Powder dust		ppm	≤ 100	Weight method
Wt. of 100 chips		g	1.55 ± 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℃, 4-6 hours residence time, dew-point temperature below -40℃.

Typical barrel temperature about 285-298℃.