

## Xinjiang Tunhe PET Chips Technical Data Sheet

The PET resin chips for multi-functional differentiated bottles from Blue Ridge Tunhe cover a wide range of applications with a complete product variety, including carbonated beverage bottle chips, water bottle chips, water vapor bottle chips, hot-fill beverage bottle chips, and bottle chips for cooking oils. Compared with competing products, the company's bottle-grade chips possess the advantageous characteristics of good environmental protection and excellent processing performances. The products have passed inspection and testing of the US Food and Drug Administration (FDA) and have even been certified by Coca-Cola and Pepsi.

### Technical Specifications

Item	Unit	Water bottle	Edible oil, beverage bottles	Sparkling beverage, CS D bottles	Hot-filling bottles
		TH102	TH102C	TH104	TH105
Intrinsic Viscosity	dl/g	0.800±0.015	0.840±0.015	0.870±0.015	0.750±0.015
Color	L-Value	≥84	≥84	≥84	≥84
	B-Value	≤0	≤0	≤0	≤0
Melting Point	°C	245±2	245±2	245±2	252±2
Acetaldehyde Content	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0
Density	g/cm <sup>3</sup>	1.4±0.01	1.4±0.01	1.4±0.01	1.4±0.01
Terminal Carboxyl Group	mol/t	≤35	≤35	≤35	≤35
Ash Content	%	≤0.05	≤0.05	≤0.05	≤0.05
Powders	mg/kg	≤50	≤50	≤50	≤50
Moisture Content	%	≤0.2	≤0.2	≤0.2	≤0.2

**Chemate Technology Co.,Ltd**

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Hundred-Granule-Weight	g	1.7±0.2	1.7±0.2	1.7±0.2	1.7±0.2
DEG Content	%	1.4±0.2	1.4±0.2	1.4±0.2	1.2±0.2

## Applications



Water bottle chip

Soda water bottle / Edible oil bottle chip

Carbonate beverage bottle chip

Hot-filling bottle chip

## Precautions for use

1.Storage method: PET material is water-absorbent,therefore,it is recommended to store the entire package indoors.

2.Shelf life: PET products have no shelf life and can be used immediately after opening the package.It is recommended that the entire package be used within two years.

3.Use recommendations : PET pellets are sensitive to water at high temperatures. Excessive moisture may reduce the mechanical properties of the final product.Therefore, they need to be dried before use.The recommended drying conditions include a drying temperature of about 170°C,drying dew point of -40°Cand melting temperature of 280°C- 300°C

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