

# NAN YA PLASTICS CORPORATION

## TAIRILIN Bottle Grade PET Resin

Type No: 3824

Tairilin 3824 is a copolymer resin with a nominal intrinsic viscosity of 0.83dl/g. This resin possesses excellent melting characteristic, lower crystallization rate, large process window and stability during injection and stretch-blow molding. Tairilin 3824 resin is specially designed to have inhibited crystallization rate, which is suitable for thick parts such as 5 gallons bulk-water containers or heavy gauge sheet of A-PET. Furthermore, the high brightness of Type No.3824 resin is especially suitable for the cosmetic parts.

3824 resin is produced in a state of the art continuous polymerization technology and is combined with a strict quality monitoring system. The production facilities producing 3824 resin are approved by ISO9001, ISO14001 and OHSAS 18001 systems to confirm the outstanding quality.

3824 resin conforms to FDA Regulation 177.1630, and is widely used for food and beverage packaging. 3824 resin is an environmental friendly product with the important advantage of being totally recyclable.

### Technical Data Sheet

Items		Units	Value	Test Method
Intrinsic Viscosity		dl/g	0.830 ± 0.02	Refer to ASTM D4603
Melting temperature		°C	238 ± 3	ASTM D3418
Ash Content		%	≤ 0.02	Nan Ya Method
Moisture		%	≤ 0.30	Nan Ya Method
Acetaldehyde		ppm	≤ 1.0	Gas Chromatography
Acid value		10-6equ/g	30 ± 10	Titration Method
Bulk Density		g/cm <sup>3</sup>	0.89 ± 0.05	JIS K-5101
Chip Size		chips/2g	128 ± 3	Weight scale
Fines		ppm	< 100	Nan Ya Method
Color	L Value	-	88.0 ± 2.0	ASTM E1164
	b Value	-	-1.0 ± 1.0	ASTM E1164
<b>The following are provided as suggesting value for reference</b>				
<b>Drying Condition</b>	Dew point		°C	-40
	Air flow		ft <sup>3</sup> /min	1 / per pound chip per hour
	Residence		hr	7 ~ 5
	Temperature		°C	160 ~ 170
Moulding temperature			°C	275 ~ 290
Resin storage conditions at converter		Store PET bag in dry and clean warehouse. Consume PET resin within 1 year from packed date.		

(update on October 30, 2015)