NAN YA PLASTICS CORPORATION
TAIRILIN Bottle Grade PET Resin

Type No: 3842

Tairilin 3842 is a copolymer resin with a nominal intrinsic viscosity of 0.84dl/g. This resin posseses excellent melting characteristic, optimized crystallization rate, large process window and stability during injection and stretch-blow molding. Specifically, 3842 resin has the advantage of wide processing window during injection and stretch blow molding, this allows for a shorter cycle time and higher production speed.   Furthermore, bottles made from 3842 resin have higher strength ,better resistance of caustic stress cracking.

Tairilin 3842 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 3842 resin are approved by ISO9001, ISO14001 and OHSAS 18001 systems to confirm the outstanding quality.

3842 resin conforms to FDA Regulation 177.1630 and European Directives, and is widely used for food and beverage packaging.   3842 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	0.840 ± 0.02	Refer to ASTM D4603
Melting point		℃	242 ± 3	ASTM D3418
Ash Content		%	≦ 0.02	Ignition
Moisture content		%	≦ 0.30	Oven
Acetaldehyde		ppm	≦ 1.00	Gas Chromatography
Acid value		equ/g×10^{-6}	30 ± 10	Titration
Bulk Density		g/cm^3	0.89 ± 0.05	JIS K-5101
Pellet size		chips/2g	130 ± 3	Weight scale
Fines		ppm	< 100	Sieve
Color	L value	–	87.0 ± 2.0	ASTM E1164
	b value	–	-3.2 ± 1.0	ASTM E1164
The following are provided as suggesting value for reference				
Drying Condition	Dew point	℃	-40	
	Air flow	ft^3/min	1 / per pound chip per hour	
	Residence	hr	7 ~ 5	
	Temperature	℃	160 ~ 170	
Moulding temperature		℃	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 July 27, 2010)