

NAN YA PLASTICS CORPORATION

TAIRILIN Bottle Grade PET Resin

Type No: 7742

Tairilin 7742 is a copolymer resin with a nominal intrinsic viscosity of 0.74dl/g. This resin does not contain the conventional antimony and cobalt heavy metals. Such bottles made from 7742 resin have high brightness and clarity in compared with antimony based bottles. The reduced crystallization rate of 7742 resin allows lower processing temperature in the extruder which could inhibit the generation of acetaldehyde.

Tairilin 7742 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 7742 resin are approved by ISO9001, ISO14001 and OHSAS18001 systems to confirm its outstanding quality of the product.

7742 resin conforms to FDA Regulation 177.1630 which is suitable for food and beverage packaging. 7742 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	0.756 ± 0.02	Refer to ASTM D4603
Melting point		°C	248 ± 5	ASTM D3418
Ash Content		%	≤ 0.02	Ignition
Moisture content		%	≤ 0.30	Oven
Acetaldehyde		ppm	≤ 1.00	Gas Chromatography
Acid value		equ/g×10 ⁻⁶	20 ± 10	Titration
Bulk Density		g/cm ³	0.90 ± 0.05	JIS K-5101
Pellet size		chips/2g	128 ± 3	Weight scale
Fines		ppm	< 100	Sieve
Color	L value	—	88.2 ± 2.0	ASTM E1164
	b value	—	-0.7 ± 1.0	ASTM E1164
The following are provided as suggesting value for reference				
Drying Condition	Dew point	°C	-40	
	Air flow	ft ³ /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 March 31, 2014)