

NAN YA PLASTICS CORPORATION

TAIRILIN Bottle Grade PET Resin

Type No: 3760

Tairilin 3760 is a copolymer resin with a nominal intrinsic viscosity of 0.76dl/g. This resin, designed for hot-filled applications, possesses excellent melting and crystallization characteristics. Specifically, the optimized crystallization rate of 3760 resin yields advantages in production speed and bottle clarity. The uniform crystallization rate of 3760 resin minimizes uneven shrinkage of the bottle during processing. Therefore, the bottles made with 3760 resin are capable of higher hot-fill temperature and better dimensional stability. Tairilin 3760 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 3760 resin are approved by ISO9001, ISO14001 and OHSAS 18001 systems to confirm the outstanding quality of the product. 3760 resin has been accepted by international well-known beverage companies. 3760 resin conforms to FDA Regulation 177.1630 and European Directives, and is widely used for food and beverage packaging. 3760 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	0.760 ± 0.02	Refer to ASTM D4603	
Melting point	°C	245 ± 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	20 ± 10	Titration	
Bulk Density	g/cm ³	0.89 ± 0.05	JIS K-5101	
Pellet size	chips/2g	128 ± 3	Weight scale	
Fines	ppm	< 100	Sieve	
Color	L value	–	85.0± 2.0	ASTM E1164
	b value	–	-1.8± 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 July 27, 2010)