NAN YA PLASTICS CORPORATION TAIRILIN Bottle Grade PET Resin

Type No: 3802P

Tairilin 3802P is a bio-copolymer resin containing ~20% biobased carbon content with a nominal intrinsic viscosity of 0.80dl/g. This resin posseses excellent melting characteristic, optimized crystallization rate, large process window and stability during injection / stretch-blow molding. Specifically, 3802P resin has the advantage of wide processing window during injection and stretch blow molding, this provides the lower generation of acetaldehyde and higher clarity in bottles. 3802P resin is suitable for applications of bottled water, cooking oil, soy sauce and alcoholic beverage applications or for the larger wide mouth bottles.

Tairilin 3802P resin is produced in a state of the art continuous polymerization technology and is combined with a strict quality monotoring system. The production facilities producing 3802P resin are approved by ISO9001 and ISO14001 and OHSAS 18001 systems. 3802P resin has been accepted by food and beverage companies as its outstanding quality for many years.

Tairilin 3802P resin conforms to FDA Regulation 177.1630 and European Directives, and is widely used for food and beverage packaging. 3802P resin is an environmental friendly product with the important advantage of being totally recyclable.

Items		Units	Value	Test Method
Intrinsic Viscosity		dl/g	0.800 ± 0.02	Refer to ASTM D4603
Melting Temperature		°C	242 ± 3	ASTM D3418
Ash Content		%	≤ 0.02	Nan Ya Method
Moisture		%	≤ 0.30	Nan Ya Method
Acetaldehyde		ppm	\leq 1.0	Gas Chromatography
Carboxylic End Group		10 ⁻⁶ equ/g	30 ± 10	Titration Method
Bulk Density		g/cm ³	0.89 ± 0.05	JIS K-5101
Chip Size		chips/2g	130 ± 3	Weight scale
Fines		ppm	< 100	Nan Ya Method
Color	L Value	-	86.5 ± 2.0	ASTM E1164
	b Value	-	-1.8 ± 1.0	ASTM E1164
Biobased Carbon Content		%	20 ± 3	ASTM D6866-18
The following are provided as suggesting value for reference				
	Dew point	°C		-40
Drying	Air flow	ft ³ /min		1 / per pound chip per hour
Condition	Residence	hr		7~5
	Temperature	°C		160 ~ 170
Moulding Temperature		°C		275 ~ 290
Resin Storage Conditions		Store PET bag in dry and clean warehouse.		
at converter		Consume PET resin within 1 year from packed date.		

Technical Data Sheet

(update on Jan 22, 2020)