NAN YA PLASTICS CORPORATION

TAIRILIN Bottle Grade PET Resin

Type No: 2101

Tairilin 2101 is a homopolymer resin with nominal intrinsic viscosity of 1.01dl/g. This resin is designed to have high melt strength and high melt elasticity which is suitable for foaming application. Especially, Tairilin 2101 possesses lower carboxyl eng group which ensures the better resistance to hydrolysis. The anti-hydrolysis property imparts the longer serving life of its article made thereof. Furthermore, Tairilin 2101 has inhibited level of Diethylene glycol which could have the advantage of better dimensional stability and thermal stability. The higher melt strength and elasticity give the advantage of good foamability to create lower foam density.
Tairilin 2101 resin is produced from a state of the art continuous melt state and solid state polymerization lines, and is combined with a strict quality monotoring system. The production facilities are approved by ISO9001, ISO14001 and OHSAS 18001 systems to confirm the outstanding quality of the product.
2101 resin conforms to FDA Regulation 177.1630 and latest European Directives.
2101 resin is an environmental friendly product with the advantage of being recyclable.

Technical Data Sheet

Items		Units	Value	Test Method
Intrinsic Viscosity		dl/g	1.01 ± 0.02	Refer to ASTM D4603
Melting point		℃	252 ± 3	ASTM D3418
Ash Content		%	≦ 0.02	Ignition
Moisture content		%	≦ 0.30	Oven
Acetaldehyde		ppm	≦ 1.00	Gas Chromatography
Carboxyl end group		equ/g×10-6	16 ± 10	Titration
Bulk Density		g/cm3	0.89 ± 0.05	JIS K-5101
Pellet size		chips/2g	128 ± 3	Weight scale
Fines		ppm	< 100	Sieve
Color	L value	–	94.0 ± 2.0	ASTM E1164
	b value	–	7.0 ± 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		℃	280 ~ 300	
Resin storage conditions at converter			Store PET bag in dry and clean warehouse. Consume PET resin within 1 year from packed date.	