

NAN YA PLASTICS CORPORATION

TAIRILIN PET Resin

Type No: 7730

Tairilin 7730 is a homo type polyethylene terephthalate resin with intrinsic viscosity of 0.730dl/g. This resin is produced from the use of a special catalyst, instead of the conventional antimony and cobalt heavy metals.

The optimized recipe makes 7730 resin to have very low carboxyl end group, this is very advantageous for better thermo-stability and better hydrolysis-stability, which are very important requirements for engineering plastics applications.

Tairilin 7730 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 7730 resin are approved by ISO9001, ISO14001 and OHSAS18001 systems to confirm its outstanding quality of the product.

7730 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	0.730 ± 0.02	Refer to ASTM D4603	
Melting point	°C	253 ± 3	ASTM D3418	
Ash Content	%	≤ 0.02	Ignition	
Moisture content	%	≤ 0.30	Oven	
Acetaldehyde	ppm	≤ 1.00	Gas Chromatography	
Carboxyl_end level	equ/g×10 ⁻⁶	12 ± 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	-	91.0 ± 2.0	ASTM E1164
	b value	-	-1.0 ± 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)