

NAN YA PLASTICS CORPORATION

TAIRILIN Extrusion Grade PET Resin

Type No: P115

Tairilin P115 is a copolymer resins with a nominal intrinsic viscosity of 1.025(Lot No.1SF14) and 1.10dl/g(Lot No.1SF20), respectively.

This resin is specially designed for extrusion blow molding process. Therefore, this resin possesses highly melt strength to prevent the drawdown as its molten parison. P115 resin offers the excellent clarity and sparkle needed for clear articles. Applications for P115 include extrusion blow molded containers, extruded film and sheet, and profiles, especially, P115 is able to be converted into an integrated handled clear bottle.

Therefore, P115 is a suitable material to replace PVC which is concerned on its environmental issue. Also, P115 is suitable material to replace HDPE which could not be a clear article. Additionally, P115 resin has better chemical resistance than the PETG material.

P115 resin is produced in a state of the art continuous polymerization technology and is combined with a strict quality monitoring system. The production facilities are approved by ISO9001, ISO14001 and OHSAS18001 systems.

P115 resin conforms to FDA Regulation 177.1630, and is an environmental friendly product with the advantage of being totally recyclable. Bottles made from P115 are classified as No. 1 plastic material.

Technical Data Sheet:

Items		Units	Value	Test Method
Intrinsic Viscosity		dl/g	1.025 ± 0.025 (1SF14) 1.100 ± 0.025 (1SF20)	Refer to ASTM D4603
Melting point		°C	233 ± 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	0.90 ± 0.05	JIS K-5101
Pellet size		chips/2g	150 ± 3	Weight scale
Fines		ppm	< 100	Sieve
Color	L value	—	85.0 ± 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	245 ~ 275	
Resin storage conditions at converter			Store PET bag in dry and clean warehouse. Consume PET resin within 1 year from packed date.	

(update on October 30, 2015)