

TAIRILIN Type No. P115

押出吹瓶級聚酯粒

PET BOTTLE RESIN FOR EXTRUSION BLOW MOLDING

■ Type No. P115 聚酯粒的特點

Characteristics of TYPE NO. P115 Resin

- 較高的熔融強度，適合押出吹氣製程生產體積達2至3公升的瓶子。
P115 possesses high melt strength which is suitable to produce bottles with volume up to 2-3 liter via extrusion blow molding process.
- 較慢的結晶速率，製成的瓶子具有高透明度。
Crystallization rate of P115 resin is inhibited to ensure high transparency of the bottles.
- 瓶子的耐化學品特性優於PETG及聚烯烴瓶子，可盛裝特殊成分之化妝品、醫藥、車用汽油添加劑或機油精等內容物。
Bottles made from P115 resin have better resistance to special chemical ingredients than PETG or polyolefin bottles. This makes P115 bottle is a good choice for cosmetic, medical, gasoline and engine oil with special performance additives.
- 瓶子具有良好的耐衝擊性。
The specially designed composition of P115 makes the bottles have better impact strength.
- 與一般寶特瓶同屬1號塑膠，不會影響現有PET回收系統。
P115 bottle is classified as Code No. 1 plastic, is recyclable.



■ 規格 Specification

Items	Units	LOT NO.		Test Method
		1SF14	1SF20	
Intrinsic Viscosity	dl/g	1.025 ± 0.025	1.100 ± 0.025	Refer to ASTM D4603
Melting Point	°C	233 ± 3	233 ± 3	ASTM D3418
Ash Content	%	≤ 0.02	≤ 0.02	Ignition
Moisture Content	%	≤ 0.30	≤ 0.30	Oven
Acetaldehyde	ppm	≤ 1.00	≤ 1.00	Gas Chromatography
Bulk Density	g/cm ³	0.90 ± 0.05	0.90 ± 0.05	JIS K-5101
Pellet Size	chips/2g	150 ± 3	150 ± 3	Weight Scale
Fines	ppm	< 100	< 100	Sieve
Color	L value	85.0 ± 2.0	85.0 ± 2.0	ASTM E1164
	b value	-1.0 ± 1.0	-0.5 ± 1.0	ASTM E1164

■ 押出吹瓶製程的優點

Advantages of extrusion blow molding

- 熔融押出直接吹瓶，不需預注瓶胚，故可以省去昂貴之射出瓶胚模具。
Direct blow molding, without preform mold of injection stretch blow molding.
- 製程簡單，設備投資金額明顯低於射出吹瓶製程。
Briefly molding process, much lower capital investments than injection stretch blow molding.
- 熔融押出直接吹瓶，只需改變模頭及吹瓶模具設計，即可以同機快速變換生產不同形狀與大小的瓶子，有利於包裝設計之多樣性與多變性。
Mold design changes easily. Extrusion Blow Molding process could produce different sizes and shapes bottles in the same machine by the change of extrusion die and mold. Flexibly bottle change enhances the diversification of product packaging.
- 可生產形狀複雜之瓶子，例如附把手瓶、細長瓶、銳角瓶、瓶口在側邊之瓶或非對稱瓶等。
Could produce bottles with complicated shapes, such as the integral handled bottle, long shape bottle, sharp shape bottle, unsymmetric bottle, Mouth-connared bottle.



■ 建議加工條件

Recommendation processing conditions

The following are provided as suggesting value for reference

乾燥條件 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
熔融條件 Moulding Temperature		°C	230~275
酯粒存放條件 Resin Storage Conditions at Converter	存放於乾淨與乾燥的室內空間，請於包裝日起一年內加工 Store PET bag in dry and clean warehouse. Consume PET resin within 1 year from packed date.		