



高密度聚乙烯 High Density Polyethylene (HDPE)

台塑烯高密度聚乙烯為日本丸善低壓 CSTR 粉漿製程產品，具高衝擊、高剛性、良好耐化學性、高耐環境應力龜裂性、良好電氣性質，因此廣泛應用於薄膜、吹製、射出。

我們使用改良的多段重合製程生產桶級及管級，依照 ISO 12162:1995(E)，8001/8001BL 為 PE 100 等級樹脂 (最小需求強度 MRS 為 10MPa)，能承受在 20℃、10MPa 的最小環向應力作用下達 50 年以上。桶級 7500 級 7501 可用於生產 220 公升之化學桶。

台塑烯 HDPE 所有品別都含有抗氧化劑及制酸劑，且符合美國 FDA 21-177-1520 規範以及歐盟限制危害物質限令 (RoHS)。

TAISOX® High Density Polyethylene

TAISOX® High Density Polyethylene plastic resin is the product manufactured by CSTR low-pressure slurry process from Maruzen.Japan.TAISOX® HDPE is a high-impact and high-stiffness product and has distinguished chemical resistance, environmental stress crack resistance and high electrical property, so it extensively used for film, blow molding, injection, flat yarn. We used the improved polymerization process to produce drum and pipe grades.According to ISO 12162:1995(E) is the PE pipe grade TAISOX® 8001 (natural), and 8001BL (black) classified PE 100 at 20 °C and 50 years exceeds a MRS of 10Mpa. The grades of drum 7500 and 7501 can be used to produce 220 liter drum.

All HDPE products contain anti-oxidants and meet FDA 21-177-1520, RoHS.



品別 Grade	基本物性 Basic Properties	熔融指數 Melt Index MI2.16/MI21.6	密度 Density	熔點 Melting point	拉力降伏強度 Tensile strength at yield	拉力斷裂強度 Tensile strength at break	斷裂伸長率 Elongation at break	艾氏衝擊強度 Izod Impact Strength	硬度 Hardness	耐環境 應力龜裂性 ESCR	用途 Application
	單位 Unit	g/10min	g/cm ³	°C	Kg/cm ²	Kg/cm ²	%	Kg-cm/cm notch	Shore D	Hours	
	測試方法 Method	ASTM D1238	ASTMD1505	DSC	ASTM D638	ASTM D638	ASTM D638	ASTM D256	ASTM D2240	ASTM D1693	
薄膜級 Blown Film	9001	0.05	0.950	130	260	380	800	22	65	>1000	購物袋、點斷袋、垃圾袋、排水管 Shopping bag, Roll bag, Garbage bag, Underground sewer pipe.
扁紗級 Flat Yarn & Monofilament	8010	1.0	0.956	134	295	390	1000	NB	69	—	繩、網、帆布、編織袋、發泡板 Ropes, nets, Tarpaulin, Woven bags, Foam sheet.
	8012	1.1	0.957	134	300	380	1000	NB	69	—	繩、網、帆布、編織袋、發泡板 Ropes, nets, Tarpaulin, Woven bags, Foam sheet.
中空吹製級 Blow molding	8003	0.25	0.958	134	300	320	1000	25	69	30	食品容器、鮮奶容器、醫藥品罐、工具箱 Food packaging bottle, dairy bottle, Medicine cans, Tool box.
	8003H	0.30	0.958	134	300	320	1000	45	69	30	食品容器、鮮奶容器、醫藥品罐、工具箱 Food packaging bottle, dairy bottle, Medicine cans, Tool box.
	9003	0.25	0.952	132	270	300	1000	13	66	200	清潔用品瓶、機油瓶、工具箱、鞋楦、玩具 Detergent & Bleach, Engine oil bottle, Shoe last, Tool box, Toys.
	7001	0.07 / 9.0	0.949	131	250	350	600	30	65	>600	20-150L 化學桶、農藥容器、工業用品 Chemical tanks (up to 150L), Agricultural tanks, big Industrial parts.
	7501	0.02 / 3.0	0.951	134	270	380	800	NB	67	>1000	200L 開口、雙 L 環化學桶、工業棧板 Open-top type Drum, L-ring type Drum (up to 220L), Blow pallets
管級 Pipe	8001	0.05 / 7.0	0.948	129	240	360	850	30	64	>1000	PE100 本色料、飲用水管、壓力管、污排水管、化學用管、電纜套管 (8001U 含有抗紫外線吸收劑) Natural PE100, Potable water pipe, Pressure pipe, Sewer & drain pipe, Chemical pipe, Cable conduct pipe, (8001U contains light stabilizer.)
	8001U	0.05 / 7.0	0.948	129	240	360	850	30	65	>1001	
	8001BL	0.05/7.0	0.958	129	240	360	850	30	64	>1000	PE100 黑色混配料、飲用水管、瓦斯(燃氣)管、污排水管、化學用管、電纜套管 Black PE100, Potable water pipe, Gas pipe, Sewer & drain pipe, Chemical pipe, Cable conduct pipe.
通信電纜級 Wire & Cable	9007	0.80	0.951	130	230	250	600	6	65	>48	C C P 芯線絕緣、F S 通信電纜 Telephone wire insulation (C C P), Outer skin in "foam-skin" (F S).
瓶蓋級 Cap & Closure	8020	2.10	0.954	133	260	300	900	5	68	20	押蓋成型專用料，適用於礦泉水瓶蓋、一般飲料瓶蓋等，不適用於碳酸飲料瓶蓋 Designed for Compression Molding, suitable for cap and closure of Non-CSD bottles.
	8040C	4.00	0.957	133	280	280	900	7	69	15	射蓋成型專用料，適用於礦泉水瓶蓋、一般飲料瓶蓋等，不適用於碳酸飲料瓶蓋 Designed for Injection Molding, suitable for cap and closure of Non-CSD bottles.
射出級 Injection molding	8050	6.0	0.960	133	310	240	900	6	70	—	啤酒箱、搬運箱、醫療用具、休閒桌椅、運動護具、塑膠水塔、玩具用組件、工業用安全箱 Crates, Boxes, Seats, Pallet.
	8070	6.0	0.961	135	310	240	900	8	70	—	
	7200	22	0.955	133	285	150	700	3.5	67	—	一般家用盆具、菜砧、玩具、涼椅、塑膠標籃裝飾品 Housewares, Thin Walled Food Containers, PET bottle base cup.
	8230	21	0.952	131	270	150	800	4	67	—	
纖維級 Nonwoven Fiber	7200F	22	0.955	133	285	150	700	3.5	67	—	纖維專用料，適用於不織布、複合紗、紙尿布等 Designed for Nonwoven Fibers, such as Textiles & Fibers, Health & Hygiene.

以上數據為測試平均值，僅提供參考。 Data shown are average values and should not be examined for specifications.

