

### 三、台化 ASA 樹脂產品 TAIRILAC ASA Resins

ASA塑膠粒物性彙總表

TAIRILAC ASA resin consolidated property data sheet

項目 Property	單位 Unit	試驗方法 Test Method	試驗條件 Test Condition	耐候性一般射出級 Weather Resistant General Injection Grade	耐候性高流動級 Weather Resistant High Flow Grade	耐候性押出級 Weather Resistant Extrusion Grade
				WG1700	WF3300	WE8500
抗張強度 Tensile Strength	kg/cm <sup>2</sup> (Mpa)	ASTM D-638 (ISO 527)	23 °C	440 (43)	480 (47)	420 (41)
彎曲強度 Flexural Strength	kg/cm <sup>2</sup> (Mpa)	ASTM D-790 (ISO 178)	23 °C	780 (77)	800 (79)	680 (67)
彎曲模數 Flexural Modulus	kg/cm <sup>2</sup> (Mpa)	ASTM D-790 (ISO 178)	23 °C	28000 (2750)	30000 (2950)	26000 (2550)
洛氏硬度 Rockwell Hardness	R-scale	ASTM D-785 (ISO 2039/2)	23 °C	R-103	R-100	R-93
Izod衝擊強度 Izod Impact Strength	kg-cm/cm (J/m)	ASTM D-256 (ISO R180)	23 °C 1/4" bar	14 (137)	20 (196)	25 (245)
熱變形溫度 Heat Deflection Temperature	°C	ASTM D-648 (ISO 75/A)	Unannealed 18.6 kg/cm <sup>2</sup> 1/2" bar	92	90	90
荷氏軟化點 Vicat Softening Point	°C	ASTM D-1525 (ISO 306)	1kg Load	107	105	105
熔融指數 Melt Flow Index	g/10 min	ASTM D-1238 (ISO 1133)	220°C × 10kg	16	26	6.2
比重 Specific Gravity		ASTM D-792 (ISO 1183)	23°C/23°C	1.05	1.05	1.05
燃燒性 Flammability		UL-94	FILE NO. E162823	1.5mm HB All Color	1.5mm HB All Color	1.5mm V0 All Color
特性 Characteristics				耐候性優，顏色穩定性佳，適合戶外用產品。 Weather resistance is excellent, color stable. Suitable for outdoor use.		

以上數值係參考ASTM方法所測得，僅供選擇用途品級之參考。

All tests were run under laboratory conditions, ASTM testing procedures. The data are intended as a general guide only.



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今日台化樹脂

# 台化樹脂

TODAY'S

TAIRILOY PC/ABS  
 TAIRILITE FR-PC  
 TAIRILAC ASA



台湾化學纖維股份有限公司  
 FORMOSA CHEMICALS & FIBRE CORPORATION



一、台化 PC/ABS 合膠樹脂產品 TAIRILOY PC/ABS Alloys

二、台化耐燃 PC樹脂產品 TAIRILITE FR-PC Resin

PC/ABS合膠物性彙總表

TAIRILOY PC/ABS alloys consolidated property data sheet

耐燃PC塑膠物性彙總表

TAIRILITE FR-PC resin consolidated property data sheet

項目 Property	單位 Unit	試驗方法 Test Method	試驗條件 Test Condition	一般級 General Purpose Grade				耐燃級 Self Extinguishing Grade			試驗條件 Test Condition	耐燃級 Self Extinguishing Grade				
				AC2000	AC2100	AC2300	AC2400	AC3100	AC3100AF	AC3250		AC3610	AC3700	AC3710	AC3800	AC3900
抗張強度 Tensile Strength	kg/cm <sup>2</sup> (Mpa)	ASTM D-638 (ISO 527)	23 °C	550 (54)	560 (55)	500 (49)	500 (49)	630 (62)	550 (54)	600 (59)	23 °C	600 (59)	600 (59)	600 (59)	680 (66)	510 (50)
彎曲強度 Flexural Strength	kg/cm <sup>2</sup> (Mpa)	ASTM D-790 (ISO 178)	23 °C	900 (89)	900 (89)	830 (81)	850 (84)	950 (94)	900 (89)	1000 (98)	23 °C	1050 (100)	1050 (100)	1000 (98)	1050 (100)	1050 (100)
彎曲模數 Flexural Modulus	kg/cm <sup>2</sup> (Mpa)	ASTM D-790 (ISO 178)	23 °C	25000 (2450)	25000 (2450)	26000 (2550)	26000 (2550)	28000 (2750)	24000 (2350)	41000 (4050)	23 °C	21000 (2060)	21000 (2060)	23000 (2250)	23000 (2250)	23000 (2250)
洛氏硬度 Rockwell Hardness	R-scale	ASTM D-785 (ISO 2039/2)	23 °C	R-112	R-113	R-110	R-110	R-118	R-114	R-115	23 °C	R-121	R-122	R-122	R-122	R-120
Izod衝擊強度 Izod Impact Strength	kg-cm/cm (J/m)	ASTM D-256 (ISO R180)	23 °C 1/8"bar	60 (588)	65 (637)	50 (490)	55 (539)	60 (588)	55 (539)	6 (59)	23 °C 1/8"bar	75 (735)	75 (735)	65 (637)	80 (784)	50 (490)
熱變形溫度 Heat Deflection Temperature	°C	ASTM D-648 (ISO 75/A)	Unannealed 18.6 kg/cm <sup>2</sup> (1.8MPa) 1/4" bar	106	110	92	98	90	86	90	Unannealed 18.6 kg/cm <sup>2</sup> (1.8MPa) 1/8" bar	115	121	110	126	125
熔融指數 Melt Flow Index	g/10 min	ASTM D-1238 (ISO 1133)	240°C × 5kg	7	6	9	8.5	22	48	18	300°C × 1.2kg	10	12	25	11	23
比重 Specific Gravity		ASTM D792 (ISO 1183)	23°C/23°C	1.15	1.16	1.12	1.13	1.18	1.18	1.31	23°C/23°C	1.19	1.19	1.20	1.20	1.28
收縮率 Molding Shrinkage	%	ASTM D-955 (ISO 2577)	3.2mm	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6	0.3-0.5	3.2mm	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7
燃燒性 Flammability		UL-94	FILE NO. E162823	1.5mm HB All Color	1.5mm HB All Color	1.5mm HB All Color	1.5mm HB All Color	1.5mm V0 All Color	1.5mm V0 All Color	1.2mm V0 All color	FILE NO. E162823	1.5mm V0 All Color	1.5mm V0 All Color	0.8mm V0 All Color	6.3mm V0 1.5mm V2 All Color	1.5mm V0
特性 Characteristics				高耐衝擊性 High impact	高耐熱性 High heat resistant	電鍍級 Metal plating	中耐衝擊用 Medium impact	耐燃、無氯、 溴、銻 Flame retardant Cl, Br, Sb free	高流動級，耐 燃、無氯、溴、 銻 High flow, Flame retardant Cl, Br, Sb free	尺寸安定性， 耐燃、無氯、 溴、銻 Dimensional stability, Flame retardant Cl, Br, Sb free		非透明性，耐燃、 無氯、溴、銻 Non- transparency, Flame retardant Cl, Br, Sb free	非透明性，耐 燃、無氯、溴、銻 Non- transparency, Flame retardant Cl, Br, Sb free	非透明性，高流 動級，耐燃、無 氯、溴、銻 Non- transparency, High flow, Flame retardant Cl, Br, Sb free	透明性，耐燃無 氯、溴、銻 Transparent, Flame retardant Cl, Br, Sb free	白色，耐燃無氯、 溴、銻 White color Flame retardant Cl, Br, Sb free
用途 Application				手機外殼，汽車 儀表板及零組 件，安全帽， 車燈底座， 消費性電子元件 Mobile phone housings, Instrument panel & components, Safety helmets, Car lamp housings, Electronic components	手機外殼， 車用支架， 電子相框， 定時器， 手工具 Mobile phone housings, Bracket, Digital photo frame, Timer, Hand tool	汽車門把， 儀表板， 輪圈蓋， 汽車零件， 消費性電子元件 Door handle, Instrument panel, Rim cover, Auto parts, Electronic components	手機周邊產品， 螢幕外殼，掃描器 外殼，腳底按摩器 外殼，果汁機配 件，汽車零件， 消費性電子元件 Mobile phone housings, Monitor casings, Scanner casings, Foot massager's casings, Juicer parts, Auto parts, Electronic components	筆記型電腦外 殼，光碟機 loader及tray 盤，螢幕外殼， 數位相機外殼， 事務機器外殼， 家用電器外殼， 消費性電子元件 Notebook casings, CD drive loaders & trays, LCD monitor casings, Digital camera casings, Office equipment housings, Household electric housing, Electronic components	路由器， 充電器連接頭， 大型家電外殼， 機電機具外殼 Router, Connector, Electric products housing, Electro- mechanical appliance housing	筆記型電腦外殼， 3C電子產品， 電器設備， 汽車零件儀表板 Notebook casings, 3C products, Electrical equipment, Dashboard	手機充電器外殼， 變壓器外殼， 投影機外殼， 機具外殼 Mobile phone charger casings, Transformer casings, 3C products projector housing, Electromechanical appliance housing	充電器外殼， 變壓器外殼， 3C電子產品 Charger casings, Transformer casings, 3C products	筆記型電腦電池 外殼，薄壁電子 電器外殼 Notebook battery casings, Thin-walled electrical equipment housing	遊戲機外殼， 電子零件外殼， 透明產品， 3C電子產品 Game player, Electronic parts, Transparent products, 3C products	LCD-TV白膠框， LED燈 燈帽， 手機模組 LCD-TV white frame, LED light cover, Mobile modules	

以上數值係參考ASTM方法所測得，僅供選擇用途品級之參考。

All tests were run under laboratory conditions, ASTM testing procedures. The data are intended as a general guide only.