



# 台化 ABS, ASA, SAN 樹脂

**TAIRILAC<sup>®</sup>** ABS. ASA  
**TAIRISAN<sup>®</sup>** SAN

# 台化SAN,ABS,ASA樹脂產品

TAIRISAN SAN RESIN, TAIRILAC ASA RESIN, TAIRILAC ABS RESIN

台化ABS廠1996年榮獲ISO 14001認證  
台化ABS廠1996年10月榮獲ISO 9002認證

Certificate No. T972001  
Certificate No. T950330

## SAN樹脂產品 TAIRISAN SAN RESIN

一般級 General Grade 3  
特殊級 Special Grade 3

## ASA樹脂產品 TAIRILAC ASA RESIN

耐候性一般射出級 4  
Weather Resistant General Injection Grade  
耐候性高流動級 4  
Weather Resistant High Flow Grade  
耐候性押出級 5  
Weather Resistant Extrusion Grade  
耐候性啞光押出級 5  
Weather Resistant Matte Surface Extrusion Grade

## ABS樹脂產品 TAIRILAC ABS RESIN

一般級 General Purpose Grade 6-7  
深黑色一般級 Jet Black General Grade 8  
高流動級 High Flow Grade 9  
耐熱級 Heat Resistant General Grade 10  
押出級 Extrusion Grade 11  
深黑色押出級 Jet Black Extrusion Grade 12  
耐燃級 Self Extinguishing Grade 12  
電鍍級 Metal Plating Grade 13  
衛材級 Health Care Grade 13  
20% GF強化規格 20% GF Reinforced Grade 14

以上數值係參考ASTM,ISO方法所測得，僅供選擇用途品級之參考。

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

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# 台化SAN樹脂產品

TAIRISAN SAN RESIN

一般級 General Grade  
特殊級 Special Grade

|                                          |                              |                                                   | 一般級<br>General Grade                                                                                                       |                                   | 特殊級<br>Special Grade                                |                                                     |
|------------------------------------------|------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| 性質 Properties                            | 單位<br>Unit                   | 試驗條件<br>Test Condition                            | NF2200                                                                                                                     | NF2100                            | NX3200                                              | NX3400                                              |
| 熔融指數<br>Melt Flow Index                  | g/10min.                     | 200°C×5kgf<br>49(N)                               | 2.9                                                                                                                        | 5.0                               | 1.5                                                 | 1.0                                                 |
|                                          |                              | 220°C×10kgf<br>98(N)                              | 29                                                                                                                         | 50                                | 15                                                  | 10                                                  |
| IZOD 衝擊強度<br>IZOD Impact Strength        | kgf.cm /<br>cm (J/m)         | 23°C<br>1/4" bar                                  | 1.7<br>(17)                                                                                                                | 1.5<br>(15)                       | 1.8<br>(18)                                         | 1.8<br>(18)                                         |
| 比重<br>Specific Gravity                   | -                            | 23°C/23°C                                         | 1.06                                                                                                                       | 1.06                              | 1.06                                                | 1.06                                                |
| 抗張強度<br>Tensile Strength                 | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 720<br>(71)                                                                                                                | 700<br>(69)                       | 800<br>(78)                                         | 820<br>(80)                                         |
| 彎曲強度<br>Flexural Strength                | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 1200<br>(118)                                                                                                              | 1200<br>(118)                     | 1200<br>(118)                                       | 1200<br>(118)                                       |
| 彎曲模數<br>Flexural Modulus                 | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 35000<br>(3430)                                                                                                            | 35000<br>(3430)                   | 37000<br>(3620)                                     | 37000<br>(3620)                                     |
| 洛氏硬度<br>Rockwell Hardness                | R-Scale                      | 23°C                                              | M-78                                                                                                                       | M-78                              | M-83                                                | M-83                                                |
| 熱變形溫度<br>Heat Deflection<br>Temperature  | °C                           | Unannealed<br>18.6 kg/cm <sup>2</sup><br>1/4" bar | 92                                                                                                                         | 92                                | 94                                                  | 94                                                  |
| 收縮率<br>Molding Shrinkage                 | %                            | 3.2mm                                             | 0.4-0.7                                                                                                                    | 0.4-0.7                           | 0.4-0.7                                             | 0.4-0.7                                             |
| 燃燒性<br>Flammability                      | -                            | FILE NO.<br>E162823                               | 1.5mm HB<br>All Color                                                                                                      | 1.5mm HB<br>3.0mm HB<br>All Color | 1.5mm HB<br>All Color                               | 1.6-1.8mm<br>HB<br>All Color                        |
| 識別符號<br>In-mold Identification<br>Symbol | -                            | -                                                 | >SAN<                                                                                                                      | >SAN<                             | >SAN<                                               | >SAN<                                               |
| 特性<br>Characteristics                    |                              |                                                   | 高流動性、一般成型用<br>High flow, Injection grade                                                                                   |                                   | 耐熱性、<br>抗化學性<br>High heat,<br>Chemical resistance   | 耐熱性、<br>抗化學性<br>High heat,<br>Chemical resistance   |
| 用途<br>Applications                       |                              |                                                   | 垃圾桶，牙刷柄，燈罩，旅行杯，<br>筆殼，化妝品容器<br>Trash cans, Toothbrush handles, Lamp<br>covers, Pen tube, Cup with cover,<br>Cosmetic cases |                                   | 風扇葉片、<br>蓄電池盒<br>Blade of fan,<br>Batteries housing | 風扇葉片，<br>蓄電池盒<br>Blade of fan,<br>Batteries housing |

| 性質<br>Properties       | 熔融指數<br>Melt Flow Index                     | IZOD 衝擊強度<br>IZOD Impact<br>Strength | 比重<br>Specific<br>Gravity | 抗張強度<br>Tensile<br>Strength | 彎曲強度<br>Flexural<br>Strength | 彎曲模數<br>Flexural<br>Modulus | 洛氏硬度<br>Rockwell<br>Hardness | 熱變形溫度<br>Heat Deflection<br>Temperature           | 收縮率<br>Molding<br>Shrinkage | 燃燒性<br>Flammability | 識別符號<br>In-mold<br>Identification<br>Symbol |
|------------------------|---------------------------------------------|--------------------------------------|---------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|---------------------------------------------------|-----------------------------|---------------------|---------------------------------------------|
| 試驗方法<br>Test Method    | ASTM D-1238                                 | ASTM D-256                           | ASTM<br>D-792             | ASTM<br>D-638               | ASTM D-790                   |                             | ASTM D-785                   | ASTM D-648                                        | ASTM D-955                  | UL-94               | ISO 1043                                    |
| 試驗條件<br>Test Condition | 200°C×5kgf<br>49(N)<br>220°C×10kgf<br>98(N) | 23°C<br>1/4"bar                      | 23°C/23°C                 | 23°C                        | 23°C                         |                             | 23°C                         | Unannealed<br>18.6 kg/cm <sup>2</sup><br>1/4" bar | 3.2mm                       | FILE NO.<br>E162823 |                                             |

回到目錄 Back to Catalog



# 台化ASA樹脂產品

TAIRILAC ASA RESIN

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

|                                          |                              |                                                   | 耐候性一般射出級<br>Weather Resistant<br>General Injection Grade                                       | 耐候性高流動級<br>Weather Resistant<br>High Flow Grade |
|------------------------------------------|------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 性質 Properties                            | 單位<br>Unit                   | 試驗條件<br>Test Condition                            | WG1800                                                                                         | WF3301                                          |
| 熔融指數<br>Melt Flow Index                  | g/10min.                     | 220°C×10kgf<br>98(N)                              | 21                                                                                             | 30                                              |
| IZOD 衝擊強度<br>IZOD Impact Strength        | kgf.cm /<br>cm (J/m)         | 23°C<br>1/8" bar                                  | 21<br>(210)                                                                                    | 20<br>(194)                                     |
| 比重<br>Specific Gravity                   | -                            | 23°C/23°C                                         | 1.05                                                                                           | 1.05                                            |
| 抗張強度<br>Tensile Strength                 | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 430<br>(42)                                                                                    | 410<br>(41)                                     |
| 彎曲強度<br>Flexural Strength                | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 740<br>(73)                                                                                    | 700<br>(69)                                     |
| 彎曲模數<br>Flexural Modulus                 | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 21000<br>(2058)                                                                                | 21000<br>(2058)                                 |
| 洛氏硬度<br>Rockwell Hardness                | R-Scale                      | 23°C                                              | R-100                                                                                          | R-96                                            |
| 衛式軟化點<br>Vicat Softening Point           | °C                           | 1 Kg load                                         | 94                                                                                             | 95                                              |
| 熱變形溫度<br>Heat Deflection<br>Temperature  | °C                           | Unannealed<br>18.6 kg/cm <sup>2</sup><br>1/4" bar | 86                                                                                             | 83                                              |
| 收縮率<br>Molding Shrinkage                 | %                            | 3.2mm                                             | 0.4~0.7                                                                                        | 0.4~0.7                                         |
| 燃燒性<br>Flammability                      | -                            | FILE NO.<br>E162823                               | 1.5mm HB<br>3.0mm HB<br>All Color                                                              | 1.5mm HB<br>3.0mm HB<br>All Color               |
| 識別符號<br>In-mold Identification<br>Symbol | -                            | -                                                 | >ASA<                                                                                          | >ASA<                                           |
| 特性<br>Characteristics                    |                              |                                                   | 耐候性優，顏色穩定性佳，適合戶外用產品<br>Weather resistance is excellent, Color stable, Suitable for outdoor use |                                                 |

| 性質<br>Properties       | 熔融指數<br>Melt Flow<br>Index | IZOD<br>衝擊強度<br>IZOD Impact<br>Strength | 比重<br>Specific<br>Gravity | 抗張強度<br>Tensile<br>Strength | 彎曲<br>強度<br>Flexural<br>Strength | 彎曲<br>模數<br>Flexural<br>Modulus | 洛氏硬度<br>Rockwell<br>Hardness | 衛式軟化點<br>Vicat Softening<br>Point | 熱變形溫度<br>Heat Deflection<br>Temperature           | 收縮率<br>Molding<br>Shrinkage | 燃燒性<br>Flammability | 識別符號<br>In-mold<br>Identification<br>Symbol |
|------------------------|----------------------------|-----------------------------------------|---------------------------|-----------------------------|----------------------------------|---------------------------------|------------------------------|-----------------------------------|---------------------------------------------------|-----------------------------|---------------------|---------------------------------------------|
| 試驗方法<br>Test Method    | ASTM<br>D-1238             | ASTM D-256                              | ASTM<br>D-792             | ASTM<br>D-638               | ASTM D-790                       |                                 | ASTM<br>D-785                | ASTM D-1525                       | ASTM D-648                                        | ASTM<br>D-955               | UL-94               | ISO 1043                                    |
| 試驗條件<br>Test Condition | 220°C×10kgf<br>98(N)       | 23°C<br>1/8"bar                         | 23°C/23°C                 | 23°C                        | 23°C                             |                                 | 23°C                         | 1 Kg load                         | Unannealed<br>18.6 kg/cm <sup>2</sup><br>1/4" bar | 3.2mm                       | FILE NO.<br>E162823 |                                             |



# 台化ASA樹脂產品

TAIRILAC ASA RESIN

耐候性押出級

Weather Resistant Extrusion Grade

耐候性啞光押出級

Weather Resistant Matte Surface Extrusion Grade

|                                       |                              |                                                   | 耐候性押出級<br>Weather Resistant Extrusion Grade                                                  | 耐候性啞光押出級<br>Weather Resistant Matte Surface Extrusion Grade |
|---------------------------------------|------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 性質 Properties                         | 單位 Unit                      | 試驗條件 Test Condition                               | WE8300                                                                                       | WE830M                                                      |
| 熔融指數<br>Melt Flow Index               | g/10min.                     | 220°C×10kgf<br>98(N)                              | 11                                                                                           | 15                                                          |
| IZOD 衝擊強度<br>IZOD Impact Strength     | kgf.cm /<br>cm (J/m)         | 23°C<br>1/8" bar                                  | 27<br>(270)                                                                                  | 9.8<br>(96)                                                 |
| 比重<br>Specific Gravity                | -                            | 23°C/23°C                                         | 1.05                                                                                         | 1.05                                                        |
| 抗張強度<br>Tensile Strength              | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 440<br>(44)                                                                                  | 330<br>(32)                                                 |
| 彎曲強度<br>Flexural Strength             | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 750<br>(74)                                                                                  | 550<br>(55)                                                 |
| 彎曲模數<br>Flexural Modulus              | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 22000<br>(2156)                                                                              | 15000<br>(1470)                                             |
| 洛氏硬度<br>Rockwell Hardness             | R-Scale                      | 23°C                                              | R-101                                                                                        | R-85                                                        |
| 衛式軟化點<br>Vicat Softening Point        | °C                           | 1 Kg load                                         | 100                                                                                          | 95                                                          |
| 熱變形溫度<br>Heat Deflection Temperature  | °C                           | Unannealed<br>18.6 kg/cm <sup>2</sup><br>1/4" bar | 85                                                                                           | 82                                                          |
| 收縮率<br>Molding Shrinkage              | %                            | 3.2mm                                             | 0.4~0.7                                                                                      | 0.4~0.7                                                     |
| 燃燒性<br>Flammability                   | -                            | FILE NO.<br>E162823                               | 1.5mm HB<br>3.0mm HB<br>All Color                                                            | —                                                           |
| 識別符號<br>In-mold Identification Symbol | -                            | -                                                 | >ASA<                                                                                        | >ASA<                                                       |
| 特性<br>Characteristics                 |                              |                                                   | 優異耐候性，適用塑瓦改性使用<br>Excellent weather resistance, suitable for plastic roof tile modified use. |                                                             |

| 性質 Properties          | 熔融指數<br>Melt Flow Index | IZOD 衝擊強度<br>IZOD Impact Strength | 比重<br>Specific Gravity | 抗張強度<br>Tensile Strength | 彎曲強度<br>Flexural Strength | 彎曲模數<br>Flexural Modulus | 洛氏硬度<br>Rockwell Hardness | 衛式軟化點<br>Vicat Softening Point | 熱變形溫度<br>Heat Deflection Temperature              | 收縮率<br>Molding Shrinkage | 燃燒性<br>Flammability | 識別符號<br>In-mold Identification Symbol |
|------------------------|-------------------------|-----------------------------------|------------------------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------------|---------------------------------------------------|--------------------------|---------------------|---------------------------------------|
| 試驗方法<br>Test Method    | ASTM D-1238             | ASTM D-256                        | ASTM D-792             | ASTM D-638               | ASTM D-790                |                          | ASTM D-785                | ASTM D-1525                    | ASTM D-648                                        | ASTM D-955               | UL-94               | ISO 1043                              |
| 試驗條件<br>Test Condition | 220°C×10kgf<br>98(N)    | 23°C<br>1/8"bar                   | 23°C/23°C              | 23°C                     | 23°C                      |                          | 23°C                      | 1 Kg load                      | Unannealed<br>18.6 kg/cm <sup>2</sup><br>1/4" bar | 3.2mm                    | FILE NO.<br>E162823 |                                       |



# 台化ABS樹脂產品

TAIRILAC ABS RESIN

一般級  
General Purpose Grade

| 性質 Properties                         | 單位 Unit              | 試驗條件 Test Condition                   | AG15E1                                                                                      | AG15E3                            | AG15A1-H                                      | AG15A3                                    |
|---------------------------------------|----------------------|---------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------|-------------------------------------------|
| 熔融指數<br>Melt Flow Index               | g/10min.             | 200℃×5kgf<br>49(N)                    | 2.0                                                                                         | 2.1                               | 2.2                                           | 2.2                                       |
|                                       |                      | 220℃×10kgf<br>98(N)                   | 25                                                                                          | 19                                | 24                                            | 23                                        |
| IZOD 衝擊強度<br>IZOD Impact Strength     | kgf.cm /<br>cm (J/m) | 23℃<br>1/4" bar                       | 14<br>(137)                                                                                 | 19<br>(190)                       | 25<br>(246)                                   | 23<br>(226)                               |
| 比重<br>Specific Gravity                | -                    | 23℃/23℃                               | 1.05                                                                                        | 1.05                              | 1.05                                          | 1.05                                      |
| 抗張強度<br>Tensile Strength              | kgf/cm²<br>(MPa)     | 23℃                                   | 480<br>(48)                                                                                 | 500<br>(50)                       | 460<br>(45)                                   | 470<br>(46)                               |
| 彎曲強度<br>Flexural Strength             | kgf/cm²<br>(MPa)     | 23℃                                   | 840<br>(83)                                                                                 | 860<br>(85)                       | 810<br>(80)                                   | 820<br>(81)                               |
| 彎曲模數<br>Flexural Modulus              | kgf/cm²<br>(MPa)     | 23℃                                   | 28000<br>(2750)                                                                             | 27000<br>(2646)                   | 26000<br>(2548)                               | 25000<br>(2450)                           |
| 洛氏硬度<br>Rockwell Hardness             | R-Scale              | 23℃                                   | R-111                                                                                       | R-111                             | R-110                                         | R-109                                     |
| 衛式軟化點<br>Vicat Softening Point        | ℃                    | 1 Kg load                             | 103                                                                                         | 103                               | 100                                           | 99                                        |
| 熱變形溫度<br>Heat Deflection Temperature  | ℃                    | Unannealed<br>18.6 kg/cm²<br>1/4" bar | 85                                                                                          | 88                                | 88                                            | 87                                        |
|                                       |                      | Annealed<br>(80℃×8hr)                 | 95                                                                                          | 96                                | 95                                            | 95                                        |
| 收縮率<br>Molding Shrinkage              | %                    | 3.2mm                                 | 0.4~0.7                                                                                     | 0.4~0.7                           | 0.4~0.7                                       | 0.4~0.7                                   |
| 燃燒性<br>Flammability                   | -                    | FILE NO.<br>E162823                   | 1.6mm HB<br>All Color                                                                       | 1.5mm HB<br>3.0mm HB<br>All Color | 1.0mm HB<br>1.5mm HB<br>3.0mm HB<br>All Color | 1.0mm HB<br>1.5-1.65mm<br>HB<br>All Color |
| 識別符號<br>In-mold Identification Symbol | -                    | -                                     | >ABS<                                                                                       | >ABS<                             | >ABS<                                         | >ABS<                                     |
| 特性<br>Characteristics                 |                      |                                       | 高光澤性、高剛性<br>High gloss, High rigid                                                          |                                   | 高光澤性、中耐衝擊性<br>High gloss, Medium impact       |                                           |
| 用途<br>Applications                    |                      |                                       | 玩具、計算器、電話、時鐘外殼、音響外殼、手提箱<br>Toys, Caculators, Phone, Clock housing, Stereo housing, Suitcase |                                   |                                               |                                           |

| 性質<br>Properties       | 熔融指數<br>Melt Flow Index | IZOD<br>衝擊強度<br>IZOD Impact Strength | 比重<br>Specific Gravity | 抗張強度<br>Tensile Strength | 彎曲<br>強度<br>Flexural Strength | 彎曲<br>模數<br>Flexural Modulus | 洛氏硬度<br>Rockwell Hardness | 衛式軟化點<br>Vicat Softening Point | 熱變形溫度<br>Heat Deflection Temperature  | 收縮率<br>Molding Shrinkage | 燃燒性<br>Flammability | 識別符號<br>In-mold Identification Symbol |
|------------------------|-------------------------|--------------------------------------|------------------------|--------------------------|-------------------------------|------------------------------|---------------------------|--------------------------------|---------------------------------------|--------------------------|---------------------|---------------------------------------|
| 試驗方法<br>Test Method    | ASTM D-1238             | ASTM D-256                           | ASTM D-792             | ASTM D-638               | ASTM D-790                    |                              | ASTM D-785                | ASTM D-1525                    | ASTM D-648                            | ASTM D-955               | UL-94               | ISO 1043                              |
| 試驗條件<br>Test Condition | 200°C×5kgf<br>49(N)     | 23°C<br>1/4"bar                      | 23°C/23°C              | 23°C                     | 23°C                          | 23°C                         | 23°C                      | 1 Kg load                      | Unannealed<br>18.6 kg/cm²<br>1/4" bar | 3.2mm                    | FILE NO.<br>E162823 |                                       |
|                        | 220°C×10kgf<br>98(N)    |                                      |                        |                          |                               |                              |                           |                                | Annealed<br>(80°C×8hr)                |                          |                     |                                       |

回到目錄 Back to Catalog



# 台化ABS樹脂產品

TAIRILAC ABS RESIN

一般級  
General Purpose Grade

| 性質 Properties                         | 單位 Unit                      | 試驗條件 Test Condition                               | AG12A3                                                                                                                | AG12A0                            | AG100H                                                                                  |
|---------------------------------------|------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------|
| 熔融指數<br>Melt Flow Index               | g/10min.                     | 200°C×5kgf<br>49(N)                               | 1.6                                                                                                                   | 1.6                               | -                                                                                       |
|                                       |                              | 220°C×10kgf<br>98(N)                              | 19                                                                                                                    | 22                                | 9                                                                                       |
| IZOD 衝擊強度<br>IZOD Impact Strength     | kgf.cm /<br>cm (J/m)         | 23°C<br>1/4" bar                                  | 30<br>(297)                                                                                                           | 31<br>(308)                       | 38<br>(373)                                                                             |
| 比重<br>Specific Gravity                | -                            | 23°C/23°C                                         | 1.04                                                                                                                  | 1.04                              | 1.04                                                                                    |
| 抗張強度<br>Tensile Strength              | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 430<br>(42)                                                                                                           | 420<br>(41)                       | 370<br>(36)                                                                             |
| 彎曲強度<br>Flexural Strength             | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 730<br>(72)                                                                                                           | 740<br>(73)                       | 620<br>(61)                                                                             |
| 彎曲模數<br>Flexural Modulus              | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 22000<br>(2156)                                                                                                       | 24000<br>(2352)                   | 19000<br>(1862)                                                                         |
| 洛氏硬度<br>Rockwell Hardness             | R-Scale                      | 23°C                                              | R-106                                                                                                                 | R-105                             | R-95                                                                                    |
| 衛式軟化點<br>Vicat Softening Point        | °C                           | 1 Kg load                                         | 102                                                                                                                   | 102                               | 99                                                                                      |
| 熱變形溫度<br>Heat Deflection Temperature  | °C                           | Unannealed<br>18.6 kg/cm <sup>2</sup><br>1/4" bar | 85                                                                                                                    | 85                                | 84                                                                                      |
|                                       |                              | Annealed<br>(80°C×8hr)                            | 95                                                                                                                    | 95                                | 94                                                                                      |
| 收縮率<br>Molding Shrinkage              | %                            | 3.2mm                                             | 0.4~0.7                                                                                                               | 0.4~0.7                           | 0.4~0.7                                                                                 |
| 燃燒性<br>Flammability                   | -                            | FILE NO.<br>E162823                               | 1.5-1.65mm HB<br>All Color                                                                                            | 1.5mm HB<br>3.0mm HB<br>All Color | 1.5mm HB<br>3.0mm HB<br>All Color                                                       |
| 識別符號<br>In-mold Identification Symbol | -                            | -                                                 | >ABS<                                                                                                                 | >ABS<                             | >ABS<                                                                                   |
| 特性<br>Characteristics                 |                              |                                                   | 高光澤性、高耐衝擊性<br>High gloss, High impact                                                                                 | 高耐衝擊性<br>High impact              | 超高耐衝擊性<br>Super high impact                                                             |
| 用途<br>Applications                    |                              |                                                   | 鞋跟、玩具、時鐘外殼、音響外殼、<br>手提箱、板狀製品<br>Shoe heels, Toys, Clock housing, Stereo<br>housing, Suitcase, The plate-like products |                                   | 盔帽、鞋跟、<br>管配件、低溫用品<br>Helmets, Shoe heels, Pipe fittings,<br>Products of low-temp usage |

| 性質<br>Properties       | 熔融指數<br>Melt Flow Index | IZOD<br>衝擊強度<br>IZOD Impact Strength | 比重<br>Specific Gravity | 抗張強度<br>Tensile Strength | 彎曲<br>強度<br>Flexural Strength | 彎曲<br>模數<br>Flexural Modulus | 洛氏硬度<br>Rockwell Hardness | 衛式軟化點<br>Vicat Softening Point | 熱變形溫度<br>Heat Deflection Temperature              | 收縮率<br>Molding Shrinkage | 燃燒性<br>Flammability | 識別符號<br>In-mold Identification Symbol |
|------------------------|-------------------------|--------------------------------------|------------------------|--------------------------|-------------------------------|------------------------------|---------------------------|--------------------------------|---------------------------------------------------|--------------------------|---------------------|---------------------------------------|
| 試驗方法<br>Test Method    | ASTM D-1238             | ASTM D-256                           | ASTM D-792             | ASTM D-638               | ASTM D-790                    |                              | ASTM D-785                | ASTM D-1525                    | ASTM D-648                                        | ASTM D-955               | UL-94               | ISO 1043                              |
| 試驗條件<br>Test Condition | 200°C×5kgf<br>49(N)     | 23°C<br>1/4"bar                      | 23°C/23°C              | 23°C                     | 23°C                          | 23°C                         | 23°C                      | 1 Kg load                      | Unannealed<br>18.6 kg/cm <sup>2</sup><br>1/4" bar | 3.2mm                    | FILE NO.<br>E162823 |                                       |
|                        | 220°C×10kgf<br>98(N)    |                                      |                        |                          |                               |                              |                           |                                | Annealed<br>(80°C×8hr)                            |                          |                     |                                       |

回到目錄 Back to Catalog



# 台化ABS樹脂產品

TAIRILAC ABS RESIN

深黑色一般級  
Jet Black General Grade

| 性質 Properties                            | 單位 Unit                      | 試驗條件 Test Condition                               | AG15AJ                                                                                       | AG15AB                            | AG12AJ                              |
|------------------------------------------|------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------|
| 熔融指數<br>Melt Flow Index                  | g/10min.                     | 200°C×5kgf<br>49(N)                               | 1.6                                                                                          | 2.4                               | 1.9                                 |
|                                          |                              | 220°C×10kgf<br>98(N)                              | 28                                                                                           | 25                                | 22                                  |
| IZOD 衝擊強度<br>IZOD Impact Strength        | kgf.cm /<br>cm (J/m)         | 23°C<br>1/4" bar                                  | 25<br>(246)                                                                                  | 19<br>(190)                       | 34<br>(338)                         |
| 比重<br>Specific Gravity                   | -                            | 23°C/23°C                                         | 1.05                                                                                         | 1.05                              | 1.05                                |
| 抗張強度<br>Tensile Strength                 | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 440<br>(43)                                                                                  | 470<br>(46)                       | 400<br>(39)                         |
| 彎曲強度<br>Flexural Strength                | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 770<br>(76)                                                                                  | 830<br>(82)                       | 680<br>(67)                         |
| 彎曲模數<br>Flexural Modulus                 | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 25000<br>(2450)                                                                              | 25000<br>(2450)                   | 21000<br>(2058)                     |
| 洛氏硬度<br>Rockwell Hardness                | R-Scale                      | 23°C                                              | R-108                                                                                        | R-109                             | R-103                               |
| 衛式軟化點<br>Vicat Softening Point           | °C                           | 1 Kg load                                         | 104                                                                                          | 102                               | 101                                 |
| 熱變形溫度<br>Heat Deflection<br>Temperature  | °C                           | Unannealed<br>18.6 kg/cm <sup>2</sup><br>1/4" bar | 86                                                                                           | 87                                | 86                                  |
|                                          |                              | Annealed<br>(80°C×8hr)                            | 96                                                                                           | 96                                | 96                                  |
| 收縮率<br>Molding Shrinkage                 | %                            | 3.2mm                                             | 0.4~0.7                                                                                      | 0.4~0.7                           | 0.4~0.7                             |
| 燃燒性<br>Flammability                      | -                            | FILE NO.<br>E162823                               | 1.5mm HB<br>3.0mm HB<br>BK                                                                   | 1.5mm HB<br>3.0mm HB<br>BK        | 1.6-1.76 HB<br>BK                   |
| 識別符號<br>In-mold Identification<br>Symbol | -                            | -                                                 | >ABS<                                                                                        | >ABS<                             | >ABS<                               |
| 特性<br>Characteristics                    |                              |                                                   | 深黑色<br>Jet black                                                                             | 深黑色、高光澤性<br>Jet black, High gloss | 深黑色、高耐衝擊性<br>Jet black, High impact |
| 用途<br>Applications                       |                              |                                                   | 黑色零配件、LED-TV外殼、All-in-one PC外殼<br>Black purpose parts, LED-TV housing, All-in-one PC housing |                                   |                                     |

| 性質<br>Properties       | 熔融指數<br>Melt Flow<br>Index | IZOD<br>衝擊強度<br>IZOD Impact<br>Strength | 比重<br>Specific<br>Gravity | 抗張強度<br>Tensile<br>Strength | 彎曲<br>強度<br>Flexural<br>Strength | 彎曲<br>模數<br>Flexural<br>Modulus | 洛氏硬度<br>Rockwell<br>Hardness | 衛式軟化點<br>Vicat Softening<br>Point | 熱變形溫度<br>Heat Deflection<br>Temperature | 收縮率<br>Molding<br>Shrinkage | 燃燒性<br>Flammability | 識別符號<br>In-mold<br>Identification<br>Symbol |
|------------------------|----------------------------|-----------------------------------------|---------------------------|-----------------------------|----------------------------------|---------------------------------|------------------------------|-----------------------------------|-----------------------------------------|-----------------------------|---------------------|---------------------------------------------|
| 試驗方法<br>Test Method    | ASTM<br>D-1238             | ASTM D-256                              | ASTM<br>D-792             | ASTM<br>D-638               | ASTM D-790                       |                                 | ASTM<br>D-785                | ASTM D-1525                       | ASTM D-648                              | ASTM<br>D-955               | UL-94               | ISO 1043                                    |
| 試驗條件<br>Test Condition | 200°C×5kgf<br>49(N)        | 23°C<br>1/4"bar                         | 23°C/23°C                 | 23°C                        | 23°C                             | 23°C                            | 23°C                         | 1 Kg load                         | Unannealed<br>18.6 kg/cm²<br>1/4" bar   | 3.2mm                       | FILE NO.<br>E162823 |                                             |
|                        | 220°C×10kgf<br>98(N)       |                                         |                           |                             |                                  |                                 |                              |                                   | Annealed<br>(80°C×8hr)                  |                             |                     |                                             |

回到目錄 Back to Catalog



# 台化ABS樹脂產品

TAIRILAC ABS RESIN

高流動級  
High Flow Grade

| 性質 Properties                            | 單位 Unit                      | 試驗條件 Test Condition                               | AF3560                                                                                    | AF3535                                            | AF3530                                                                   | AF3500                                      |
|------------------------------------------|------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------|
| 熔融指數<br>Melt Flow Index                  | g/10min.                     | 200°C×5kgf<br>49(N)                               | 6.0                                                                                       | 4.2                                               | 3.0                                                                      | 5.0                                         |
|                                          |                              | 220°C×10kgf<br>98(N)                              | 52                                                                                        | 41                                                | 31                                                                       | 49                                          |
| IZOD 衝擊強度<br>IZOD Impact Strength        | kgf.cm /<br>cm (J/m)         | 23°C<br>1/4" bar                                  | 14<br>(143)                                                                               | 23<br>(227)                                       | 29<br>(289)                                                              | 30<br>(291)                                 |
| 比重<br>Specific Gravity                   | -                            | 23°C/23°C                                         | 1.04                                                                                      | 1.04                                              | 1.04                                                                     | 1.04                                        |
| 抗張強度<br>Tensile Strength                 | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 470<br>(46)                                                                               | 440<br>(43)                                       | 440<br>(43)                                                              | 390<br>(38)                                 |
| 彎曲強度<br>Flexural Strength                | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 790<br>(78)                                                                               | 750<br>(74)                                       | 750<br>(74)                                                              | 670<br>(66)                                 |
| 彎曲模數<br>Flexural Modulus                 | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 24000<br>(2352)                                                                           | 23000<br>(2254)                                   | 24000<br>(2352)                                                          | 21000<br>(2058)                             |
| 洛氏硬度<br>Rockwell Hardness                | R-Scale                      | 23°C                                              | R-109                                                                                     | R-105                                             | R-105                                                                    | R-102                                       |
| 衛式軟化點<br>Vicat Softening Point           | °C                           | 1 Kg load                                         | 99                                                                                        | 100                                               | 102                                                                      | 99                                          |
| 熱變形溫度<br>Heat Deflection<br>Temperature  | °C                           | Unannealed<br>18.6 kg/cm <sup>2</sup><br>1/4" bar | 86                                                                                        | 85                                                | 84                                                                       | 83                                          |
|                                          |                              | Annealed<br>(80°C×8hr)                            | 96                                                                                        | 94                                                | 93                                                                       | 94                                          |
| 收縮率<br>Molding Shrinkage                 | %                            | 3.2mm                                             | 0.4~0.7                                                                                   | 0.4~0.7                                           |                                                                          | 0.4~0.7                                     |
| 燃燒性<br>Flammability                      | -                            | FILE NO.<br>E162823                               | 1.5mm HB<br>3.0mm HB<br>All Color                                                         | 0.8mm HB<br>1.0mm HB<br>1.5-1.7mm HB<br>All Color | -                                                                        | 1.5mm HB<br>3.0mm HB<br>All Color           |
| 識別符號<br>In-mold Identification<br>Symbol | -                            | -                                                 | >ABS<                                                                                     | >ABS<                                             | >ABS<                                                                    | >ABS<                                       |
| 特性<br>Characteristics                    |                              |                                                   | 高流動性, 高耐衝擊性<br>High flow, High impact                                                     |                                                   | 高流動性、<br>高耐衝擊性、<br>耐化學性<br>High flow, High impact,<br>Chemical resistant | 高流動性、<br>高耐衝擊性<br>High flow, High<br>impact |
| 用途<br>Applications                       |                              |                                                   | 音響、大型玩具、椅子、機車外殼、事務機外殼<br>Housing of stereos, Large toys, Chairs, Motorcycles, OA machines |                                                   |                                                                          |                                             |

| 性質<br>Properties       | 熔融指數<br>Melt Flow<br>Index | IZOD<br>衝擊強度<br>IZOD Impact<br>Strength | 比重<br>Specific<br>Gravity | 抗張強度<br>Tensile<br>Strength | 彎曲<br>強度<br>Flexural<br>Strength | 彎曲<br>模數<br>Flexural<br>Modulus | 洛氏硬度<br>Rockwell<br>Hardness | 衛式軟化點<br>Vicat Softening<br>Point | 熱變形溫度<br>Heat Deflection<br>Temperature | 收縮率<br>Molding<br>Shrinkage | 燃燒性<br>Flammability | 識別符號<br>In-mold<br>Identification<br>Symbol |
|------------------------|----------------------------|-----------------------------------------|---------------------------|-----------------------------|----------------------------------|---------------------------------|------------------------------|-----------------------------------|-----------------------------------------|-----------------------------|---------------------|---------------------------------------------|
| 試驗方法<br>Test Method    | ASTM<br>D-1238             | ASTM D-256                              | ASTM<br>D-792             | ASTM<br>D-638               | ASTM D-790                       |                                 | ASTM<br>D-785                | ASTM D-1525                       | ASTM D-648                              | ASTM<br>D-955               | UL-94               | ISO 1043                                    |
| 試驗條件<br>Test Condition | 200°C×5kgf<br>49(N)        | 23°C<br>1/4"bar                         | 23°C/23°C                 | 23°C                        | 23°C                             | 23°C                            | 23°C                         | 1 Kg load                         | Unannealed<br>18.6 kg/cm²<br>1/4" bar   | 3.2mm                       | FILE NO.<br>E162823 |                                             |
|                        | 220°C×10kgf<br>98(N)       |                                         |                           |                             |                                  |                                 |                              |                                   | Annealed<br>(80°C×8hr)                  |                             |                     |                                             |

回到目錄 Back to Catalog



# 台化ABS樹脂產品

TAIRILAC ABS RESIN

耐熱級  
Heat Resistant General Grade

| 性質 Properties                            | 單位 Unit                      | 試驗條件 Test Condition                               | AX4000                                                                                       | AX4100                  | AX4300                                                  |
|------------------------------------------|------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------|
| 熔融指數<br>Melt Flow Index                  | g/10min.                     | 200°C×5kgf<br>49(N)                               | —                                                                                            | —                       | —                                                       |
|                                          |                              | 220°C×10kgf<br>98(N)                              | 11                                                                                           | 5.5                     | 4.1                                                     |
| IZOD 衝擊強度<br>IZOD Impact Strength        | kgf.cm /<br>cm (J/m)         | 23°C<br>1/4" bar                                  | 20<br>(192)                                                                                  | 14<br>(139)             | 30<br>(299)                                             |
| 比重<br>Specific Gravity                   | -                            | 23°C/23°C                                         | 1.05                                                                                         | 1.05                    | 1.05                                                    |
| 抗張強度<br>Tensile Strength                 | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 420<br>(41)                                                                                  | 410<br>(40)             | 450<br>(44)                                             |
| 彎曲強度<br>Flexural Strength                | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 770<br>(76)                                                                                  | 760<br>(75)             | 780<br>(77)                                             |
| 彎曲模數<br>Flexural Modulus                 | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 24000<br>(2352)                                                                              | 24000<br>(2350)         | 22000<br>(2156)                                         |
| 洛氏硬度<br>Rockwell Hardness                | R-Scale                      | 23°C                                              | R-109                                                                                        | R-110                   | R-106                                                   |
| 衛式軟化點<br>Vicat Softening Point           | °C                           | 1 Kg load                                         | 113                                                                                          | 125                     | 111                                                     |
| 熱變形溫度<br>Heat Deflection<br>Temperature  | °C                           | Unannealed<br>18.6 kg/cm <sup>2</sup><br>1/4" bar | 93                                                                                           | 102                     | 94                                                      |
|                                          |                              | Annealed<br>(80°C×8hr)                            | 104                                                                                          | 112                     | 104                                                     |
| 收縮率<br>Molding Shrinkage                 | %                            | 3.2mm                                             | 0.3~0.6                                                                                      | 0.3~0.6                 | 0.3~0.6                                                 |
| 燃燒性<br>Flammability                      | -                            | FILE NO.<br>E162823                               | 1.5mm HB<br>All Color                                                                        | 1.5mm HB<br>All Color   | 1.5mm HB<br>3.0mm HB<br>All Color                       |
| 識別符號<br>In-mold Identification<br>Symbol | -                            | -                                                 | >ABS<                                                                                        | >ABS<                   | >ABS<                                                   |
| 特性<br>Characteristics                    |                              |                                                   | 耐熱性<br>Medium high heat                                                                      | 超耐熱性<br>Super high heat | 耐熱性、押出吹塑<br>Medium high heat,<br>Extrusion blow molding |
| 用途<br>Applications                       |                              |                                                   | 汽車零件、電器用品、吹風機、耐熱組件<br>Parts of cars, Electrical appliances, Hair dryer, Heat resistant parts |                         |                                                         |

| 性質<br>Properties       | 熔融指數<br>Melt Flow<br>Index | IZOD<br>衝擊強度<br>IZOD Impact<br>Strength | 比重<br>Specific<br>Gravity | 抗張強度<br>Tensile<br>Strength | 彎曲<br>強度<br>Flexural<br>Strength | 彎曲<br>模數<br>Flexural<br>Modulus | 洛氏硬度<br>Rockwell<br>Hardness | 衛式軟化點<br>Vicat Softening<br>Point | 熱變形溫度<br>Heat Deflection<br>Temperature | 收縮率<br>Molding<br>Shrinkage | 燃燒性<br>Flammability | 識別符號<br>In-mold<br>Identification<br>Symbol |
|------------------------|----------------------------|-----------------------------------------|---------------------------|-----------------------------|----------------------------------|---------------------------------|------------------------------|-----------------------------------|-----------------------------------------|-----------------------------|---------------------|---------------------------------------------|
| 試驗方法<br>Test Method    | ASTM<br>D-1238             | ASTM D-256                              | ASTM<br>D-792             | ASTM<br>D-638               | ASTM D-790                       |                                 | ASTM<br>D-785                | ASTM D-1525                       | ASTM D-648                              | ASTM<br>D-955               | UL-94               | ISO 1043                                    |
| 試驗條件<br>Test Condition | 200°C×5kgf<br>49(N)        | 23°C<br>1/4"bar                         | 23°C/23°C                 | 23°C                        | 23°C                             | 23°C                            | 23°C                         | 1 Kg load                         | Unannealed<br>18.6 kg/cm²<br>1/4" bar   | 3.2mm                       | FILE NO.<br>E162823 |                                             |
|                        | 220°C×10kgf<br>98(N)       |                                         |                           |                             |                                  |                                 |                              |                                   | Annealed<br>(80°C×8hr)                  |                             |                     |                                             |

回到目錄 Back to Catalog



# 台化ABS樹脂產品

TAIRILAC ABS RESIN

押出級  
Extrusion Grade

| 性質 Properties                            | 單位 Unit                      | 試驗條件 Test Condition                               | AG10NP                                                                    | AG10AP                | AE8000                | AE8200                            | AE8700      |
|------------------------------------------|------------------------------|---------------------------------------------------|---------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------------------|-------------|
| 熔融指數<br>Melt Flow Index                  | g/10min.                     | 200°C×5kgf<br>49(N)                               | -                                                                         | -                     | -                     | -                                 | -           |
|                                          |                              | 220°C×10kgf<br>98(N)                              | 6.0                                                                       | 4.6                   | 4.9                   | 17                                | 4.2         |
| IZOD 衝擊強度<br>IZOD Impact Strength        | kgf.cm /<br>cm (J/m)         | 23°C<br>1/4" bar                                  | 44<br>(431)                                                               | 49<br>(480)           | 45<br>(440)           | 37<br>(360)                       | 32<br>(311) |
| 比重<br>Specific Gravity                   | -                            | 23°C/23°C                                         | 1.04                                                                      | 1.04                  | 1.04                  | 1.04                              | 1.04        |
| 抗張強度<br>Tensile Strength                 | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 450<br>(44)                                                               | 390<br>(38)           | 440<br>(43)           | 440<br>(43)                       | 480<br>(47) |
| 彎曲強度<br>Flexural Strength                | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 740<br>(73)                                                               | 640<br>(63)           | 740<br>(73)           | 760<br>(75)                       | 820<br>(81) |
| 彎曲模數<br>Flexural Modulus                 | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 23000<br>(2260)                                                           | 19000<br>(1862)       | 22000<br>(2156)       | 23000<br>(2260)                   | 25000       |
| 洛氏硬度<br>Rockwell Hardness                | R-Scale                      | 23°C                                              | R-102                                                                     | R-93                  | R-103                 | R-102                             | R-109       |
| 衛式軟化點<br>Vicat Softening Point           | °C                           | 1 Kg load                                         | 101                                                                       | 100                   | 102                   | 100                               | 105         |
| 熱變形溫度<br>Heat Deflection<br>Temperature  | °C                           | Unannealed<br>18.6 kg/cm <sup>2</sup><br>1/4" bar | 88                                                                        | 84                    | 87                    | 88                                | 90          |
|                                          |                              | Annealed<br>(80°C×8hr)                            | 98                                                                        | 94                    | 96                    | 96                                | 99          |
| 收縮率<br>Molding Shrinkage                 | %                            | 3.2mm                                             | 0.4~0.7                                                                   | 0.4~0.7               | 0.4~0.7               | 0.4~0.7                           | 0.4~0.7     |
| 燃燒性<br>Flammability                      | -                            | FILE NO.<br>E162823                               | 1.6-1.76mm<br>HB<br>All Color                                             | 1.6mm HB<br>All Color | 1.6mm HB<br>All Color | 1.6mm HB<br>3.0mm HB<br>All Color | -           |
| 識別符號<br>In-mold Identification<br>Symbol | -                            | -                                                 | >ABS<                                                                     | >ABS<                 | >ABS<                 | >ABS<                             | >ABS<       |
| 特性<br>Characteristics                    |                              |                                                   | 押出成型、超高耐衝擊性、高剛性<br>Extrusion molding, Super high impact, High rigid       |                       |                       |                                   |             |
| 用途<br>Applications                       |                              |                                                   | 押出成型製品、安全帽、管狀製品、鞋跟<br>Extrusion products, Crash helmet, Pipes, Shoe heels |                       |                       |                                   |             |

| 性質<br>Properties       | 熔融指數<br>Melt Flow<br>Index | IZOD<br>衝擊強度<br>IZOD Impact<br>Strength | 比重<br>Specific<br>Gravity | 抗張強度<br>Tensile<br>Strength | 彎曲<br>強度<br>Flexural<br>Strength | 彎曲<br>模數<br>Flexural<br>Modulus | 洛氏硬度<br>Rockwell<br>Hardness | 衛式軟化點<br>Vicat Softening<br>Point | 熱變形溫度<br>Heat Deflection<br>Temperature | 收縮率<br>Molding<br>Shrinkage | 燃燒性<br>Flammability | 識別符號<br>In-mold<br>Identification<br>Symbol |
|------------------------|----------------------------|-----------------------------------------|---------------------------|-----------------------------|----------------------------------|---------------------------------|------------------------------|-----------------------------------|-----------------------------------------|-----------------------------|---------------------|---------------------------------------------|
| 試驗方法<br>Test Method    | ASTM<br>D-1238             | ASTM D-256                              | ASTM<br>D-792             | ASTM<br>D-638               | ASTM D-790                       |                                 | ASTM<br>D-785                | ASTM D-1525                       | ASTM D-648                              | ASTM<br>D-955               | UL-94               | ISO 1043                                    |
| 試驗條件<br>Test Condition | 200°C×5kgf<br>49(N)        | 23°C<br>1/4"bar                         | 23°C/23°C                 | 23°C                        | 23°C                             | 23°C                            | 23°C                         | 1 Kg load                         | Unannealed<br>18.6 kg/cm²<br>1/4" bar   | 3.2mm                       | FILE NO.<br>E162823 |                                             |
|                        | 220°C×10kgf<br>98(N)       |                                         |                           |                             |                                  |                                 |                              |                                   | Annealed<br>(80°C×8hr)                  |                             |                     |                                             |

回到目錄 Back to Catalog



# 台化ABS樹脂產品

TAIRILAC ABS RESIN

深黑色押出級 Jet Black Extrusion Grade  
耐燃級 Self Extinguishing Grade

| 性質 Properties                            | 單位 Unit                      | 試驗條件 Test Condition                               | 深黑色押出級<br>Jet Black Extrusion Grade                                                                                                                       | 耐燃級<br>Self Extinguishing Grade                                    |                                                            |
|------------------------------------------|------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------|
|                                          |                              |                                                   | AE10EPJ                                                                                                                                                   | ANC100                                                             | ANC120                                                     |
| 熔融指數<br>Melt Flow Index                  | g/10min.                     | 200°C×5kgf<br>49(N)                               | -                                                                                                                                                         | 7.5                                                                | 6.4                                                        |
|                                          |                              | 220°C×10kgf<br>98(N)                              | 5.7                                                                                                                                                       | -                                                                  | -                                                          |
| IZOD 衝擊強度<br>IZOD Impact Strength        | kgf.cm /<br>cm (J/m)         | 23°C<br>1/4" bar                                  | 41<br>(406)                                                                                                                                               | 24<br>(237)                                                        | 28<br>(276)                                                |
| 比重<br>Specific Gravity                   | -                            | 23°C/23°C                                         | 1.05                                                                                                                                                      | 1.21                                                               | 1.19                                                       |
| 抗張強度<br>Tensile Strength                 | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 370<br>(36)                                                                                                                                               | 420<br>(41)                                                        | 400<br>(39)                                                |
| 彎曲強度<br>Flexural Strength                | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 630<br>(62)                                                                                                                                               | 720<br>(71)                                                        | 690<br>(68)                                                |
| 彎曲模數<br>Flexural Modulus                 | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 20000<br>(1960)                                                                                                                                           | 24000<br>(2350)                                                    | 23000<br>(2254)                                            |
| 洛氏硬度<br>Rockwell Hardness                | R-Scale                      | 23°C                                              | R-96                                                                                                                                                      | R-101                                                              | R-100                                                      |
| 衛式軟化點<br>Vicat Softening Point           | °C                           | 1 Kg load                                         | 106                                                                                                                                                       | 84                                                                 | 87                                                         |
| 熱變形溫度<br>Heat Deflection<br>Temperature  | °C                           | Unannealed<br>18.6 kg/cm <sup>2</sup><br>1/4" bar | 86                                                                                                                                                        | 78                                                                 | 74                                                         |
|                                          |                              | Annealed<br>(80°C×8hr)                            | 96                                                                                                                                                        | 90                                                                 | 84                                                         |
| 收縮率<br>Molding Shrinkage                 | %                            | 3.2mm                                             | 0.4~0.7                                                                                                                                                   | 0.3~0.6                                                            | 0.3~0.6                                                    |
| 燃燒性<br>Flammability                      | -                            | FILE NO.<br>E162823                               |                                                                                                                                                           | 1.5mm V-0<br>2.3mm V-0, 5VA<br>2.5mm 5VA<br>3.0mm V-0<br>All Color | 2.3mm V-0, 5VB<br>2.6mm V-0<br>3.0mm V-0, 5VB<br>All Color |
| 識別符號<br>In-mold Identification<br>Symbol | -                            | -                                                 | >ABS<                                                                                                                                                     | >ABS-FR(17)<                                                       | >ABS-FR(17)<                                               |
| 特性<br>Characteristics                    |                              |                                                   | 押出成型用、超高耐衝擊性、高剛性、低溫耐衝擊<br>Extrusion molding, Super high impact, High rigid, Low temperature impact                                                        |                                                                    |                                                            |
| 用途<br>Applications                       |                              |                                                   | 管狀製品<br>Pipes<br>難燃性<br>Flame retardant<br>防火級材料、電視外殼、<br>計算機外殼、事務機外殼<br>Flame retardant materials, Housing of LC monitor, LCD-TV computers & OA machines |                                                                    |                                                            |

| 性質<br>Properties       | 熔融指數<br>Melt Flow<br>Index | IZOD<br>衝擊強度<br>IZOD Impact<br>Strength | 比重<br>Specific<br>Gravity | 抗張強度<br>Tensile<br>Strength | 彎曲<br>強度<br>Flexural<br>Strength | 彎曲<br>模數<br>Flexural<br>Modulus | 洛氏硬度<br>Rockwell<br>Hardness | 衛式軟化點<br>Vicat Softening<br>Point | 熱變形溫度<br>Heat Deflection<br>Temperature | 收縮率<br>Molding<br>Shrinkage | 燃燒性<br>Flammability | 識別符號<br>In-mold<br>Identification<br>Symbol |
|------------------------|----------------------------|-----------------------------------------|---------------------------|-----------------------------|----------------------------------|---------------------------------|------------------------------|-----------------------------------|-----------------------------------------|-----------------------------|---------------------|---------------------------------------------|
| 試驗方法<br>Test Method    | ASTM<br>D-1238             | ASTM D-256                              | ASTM<br>D-792             | ASTM<br>D-638               | ASTM D-790                       |                                 | ASTM<br>D-785                | ASTM D-1525                       | ASTM D-648                              | ASTM<br>D-955               | UL-94               | ISO 1043                                    |
| 試驗條件<br>Test Condition | 200°C×5kgf<br>49(N)        | 23°C<br>1/4"bar                         | 23°C/23°C                 | 23°C                        | 23°C                             | 23°C                            | 23°C                         | 1 Kg load                         | Unannealed<br>18.6 kg/cm²<br>1/4" bar   | 3.2mm                       | FILE NO.<br>E162823 |                                             |
|                        | 220°C×10kgf<br>98(N)       |                                         |                           |                             |                                  |                                 |                              |                                   | Annealed<br>(80°C×8hr)                  |                             |                     |                                             |

回到目錄 Back to Catalog



# 台化ABS樹脂產品

TAIRILAC ABS RESIN

電鍍級 Metal Plating Grade  
衛材級 Health Care Grade

|                                          |                              |                                                   | 電鍍級<br>Metal Plating Grade                                                            | 衛材級<br>Health Care Grade                                                                                       |
|------------------------------------------|------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 性質 Properties                            | 單位<br>Unit                   | 試驗條件<br>Test Condition                            | AG23AT                                                                                | AG16A1                                                                                                         |
| 熔融指數<br>Melt Flow Index                  | g/10min.                     | 200°C×5kgf<br>49(N)                               | 2.0                                                                                   | 1.0                                                                                                            |
|                                          |                              | 220°C×10kgf<br>98(N)                              | 20                                                                                    | 11                                                                                                             |
| IZOD 衝擊強度<br>IZOD Impact Strength        | kgf.cm /<br>cm (J/m)         | 23°C<br>1/4" bar                                  | 29<br>(280)                                                                           | 28<br>(276)                                                                                                    |
| 比重<br>Specific Gravity                   | -                            | 23°C/23°C                                         | 1.04                                                                                  | 1.04                                                                                                           |
| 抗張強度<br>Tensile Strength                 | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 440<br>(43)                                                                           | 510<br>(50)                                                                                                    |
| 彎曲強度<br>Flexural Strength                | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 740<br>(73)                                                                           | 880<br>(87)                                                                                                    |
| 彎曲模數<br>Flexural Modulus                 | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 23000<br>(2254)                                                                       | 26000<br>(2548)                                                                                                |
| 洛氏硬度<br>Rockwell Hardness                | R-Scale                      | 23°C                                              | R-106                                                                                 | R-111                                                                                                          |
| 衛式軟化點<br>Vicat Softening Point           | °C                           | 1 Kg load                                         | 101                                                                                   | 104                                                                                                            |
| 熱變形溫度<br>Heat Deflection<br>Temperature  | °C                           | Unannealed<br>18.6 kg/cm <sup>2</sup><br>1/4" bar | 86                                                                                    | 88                                                                                                             |
|                                          |                              | Annealed<br>(80°C×8hr)                            | 96                                                                                    | 94                                                                                                             |
| 收縮率<br>Molding Shrinkage                 | %                            | 3.2mm                                             | 0.4~0.7                                                                               | 0.4~0.7                                                                                                        |
| 燃燒性<br>Flammability                      | -                            | FILE NO.<br>E162823                               | 1.5mm HB<br>3.0mm HB<br>All Color                                                     | 1.5mm HB<br>3.0mm HB<br>All Color                                                                              |
| 識別符號<br>In-mold Identification<br>Symbol | -                            | -                                                 | >ABS<                                                                                 | >ABS<                                                                                                          |
| 特性<br>Characteristics                    |                              |                                                   | 高耐衝擊性、電鍍用<br>High impact, Electro plating                                             | 高剛性、中耐衝擊性<br>High rigid, Medium impact                                                                         |
| 用途<br>Applications                       |                              |                                                   | 汽車輪圈蓋、旋鈕、名牌、門<br>把、電鍍用品<br>Wheel cover, Knobs, Tags,<br>Door handle, Plating products | 手術刀柄、哮喘吸入器<br>Scalpel shank, Asthma inhaler<br>通過美國藥典塑膠第六級試驗<br>Meets the requirements of USP Plastic Class VI |

| 性質<br>Properties       | 熔融指數<br>Melt Flow<br>Index | IZOD<br>衝擊強度<br>IZOD Impact<br>Strength | 比重<br>Specific<br>Gravity | 抗張強度<br>Tensile<br>Strength | 彎曲<br>強度<br>Flexural<br>Strength | 彎曲<br>模數<br>Flexural<br>Modulus | 洛氏硬度<br>Rockwell<br>Hardness | 衛式軟化點<br>Vicat Softening<br>Point | 熱變形溫度<br>Heat Deflection<br>Temperature | 收縮率<br>Molding<br>Shrinkage | 燃燒性<br>Flammability | 識別符號<br>In-mold<br>Identification<br>Symbol |
|------------------------|----------------------------|-----------------------------------------|---------------------------|-----------------------------|----------------------------------|---------------------------------|------------------------------|-----------------------------------|-----------------------------------------|-----------------------------|---------------------|---------------------------------------------|
| 試驗方法<br>Test Method    | ASTM<br>D-1238             | ASTM D-256                              | ASTM<br>D-792             | ASTM<br>D-638               | ASTM D-790                       |                                 | ASTM<br>D-785                | ASTM D-1525                       | ASTM D-648                              | ASTM<br>D-955               | UL-94               | ISO 1043                                    |
| 試驗條件<br>Test Condition | 200°C×5kgf<br>49(N)        | 23°C<br>1/4"bar                         | 23°C/23°C                 | 23°C                        | 23°C                             | 23°C                            | 23°C                         | 1 Kg load                         | Unannealed<br>18.6 kg/cm²<br>1/4" bar   | 3.2mm                       | FILE NO.<br>E162823 |                                             |
|                        | 220°C×10kgf<br>98(N)       |                                         |                           |                             |                                  |                                 |                              |                                   | Annealed<br>(80°C×8hr)                  |                             |                     |                                             |

回到目錄 Back to Catalog



# 台化ABS樹脂產品

TAIRILAC ABS RESIN

20% GF強化規格  
20% GF Reinforced Grade

| 性質 Properties                            | 單位 Unit                      | 試驗條件 Test Condition                               | AG20GF                                                 |
|------------------------------------------|------------------------------|---------------------------------------------------|--------------------------------------------------------|
| 熔融指數<br>Melt Flow Index                  | g/10min.                     | 200°C×5kgf<br>49(N)                               | -                                                      |
|                                          |                              | 240°C×10kgf<br>98(N)                              | 15                                                     |
| IZOD 衝擊強度<br>IZOD Impact Strength        | kgf.cm /<br>cm (J/m)         | 23°C<br>1/4" bar                                  | 8.7<br>(85)                                            |
| 比重<br>Specific Gravity                   | -                            | 23°C/23°C                                         | 1.19                                                   |
| 抗張強度<br>Tensile Strength                 | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 1100<br>(108)                                          |
| 彎曲強度<br>Flexural Strength                | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 1660<br>(160)                                          |
| 彎曲模數<br>Flexural Modulus                 | kgf/cm <sup>2</sup><br>(MPa) | 23°C                                              | 69510<br>(6812)                                        |
| 洛氏硬度<br>Rockwell Hardness                | R-Scale                      | 23°C                                              | R-117                                                  |
| 衛式軟化點<br>Vicat Softening Point           | °C                           | 1 Kg load                                         | 107                                                    |
| 熱變形溫度<br>Heat Deflection<br>Temperature  | °C                           | Unannealed<br>18.6 kg/cm <sup>2</sup><br>1/4" bar | 100                                                    |
|                                          |                              | Annealed<br>(80°C×8hr)                            | 105                                                    |
| 收縮率<br>Molding Shrinkage                 | %                            | 3.2mm                                             | 0.2~0.4                                                |
| 燃燒性<br>Flammability                      | -                            | FILE NO.<br>E162823                               | 1.5-1.7mm HB<br>All Color                              |
| 識別符號<br>In-mold Identification<br>Symbol | -                            | -                                                 | >ABS-GF20<                                             |
| 特性<br>Characteristics                    |                              |                                                   | 尺寸安定性、耐熱性<br>Dimensional stability high heat resistant |
| 用途<br>Applications                       |                              |                                                   | 印表機內部件<br>Printer parts                                |

| 性質<br>Properties       | 熔融指數<br>Melt Flow<br>Index | IZOD<br>衝擊強度<br>IZOD Impact<br>Strength | 比重<br>Specific<br>Gravity | 抗張強度<br>Tensile<br>Strength | 彎曲<br>強度<br>Flexural<br>Strength | 彎曲<br>模數<br>Flexural<br>Modulus | 洛氏硬度<br>Rockwell<br>Hardness | 衛式軟化點<br>Vicat Softening<br>Point | 熱變形溫度<br>Heat Deflection<br>Temperature | 收縮率<br>Molding<br>Shrinkage | 燃燒性<br>Flammability | 識別符號<br>In-mold<br>Identification<br>Symbol |
|------------------------|----------------------------|-----------------------------------------|---------------------------|-----------------------------|----------------------------------|---------------------------------|------------------------------|-----------------------------------|-----------------------------------------|-----------------------------|---------------------|---------------------------------------------|
| 試驗方法<br>Test Method    | ASTM<br>D-1238             | ASTM D-256                              | ASTM<br>D-792             | ASTM<br>D-638               | ASTM D-790                       |                                 | ASTM<br>D-785                | ASTM D-1525                       | ASTM D-648                              | ASTM<br>D-955               | UL-94               | ISO 1043                                    |
| 試驗條件<br>Test Condition | 200°C×5kgf<br>49(N)        | 23°C<br>1/4"bar                         | 23°C/23°C                 | 23°C                        | 23°C                             | 23°C                            | 23°C                         | 1 Kg load                         | Unannealed<br>18.6 kg/cm²<br>1/4" bar   | 3.2mm                       | FILE NO.<br>E162823 |                                             |
|                        | 240°C×10kgf<br>98(N)       |                                         |                           |                             |                                  |                                 |                              |                                   | Annealed<br>(80°C×8hr)                  |                             |                     |                                             |

回到目錄 Back to Catalog





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