



# TAISOX® 台塑烯

- HDPE 高密度聚乙烯
- LDPE 低密度聚乙烯
- LLDPE 線性低密度聚乙烯
- EVA 乙烯-醋酸乙烯酯共聚物



台塑大樓 Headquarters of Formosa Plastics Corporation



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台灣塑膠工業股份有限公司 · 聚烯事業部  
FORMOSA PLASTICS CORPORATION · POLYOLEFIN DIVISION

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## 聚烯事業部簡介

目前台塑企業共計擁有台塑、南亞、台化、台塑石化等百餘家關係企業，分別在台灣、美國、中國大陸及印尼都設有工廠。「聚烯事業部」隸屬台塑公司，旗下產品涵蓋所有全密度聚乙烯樹脂，包括HDPE、EVA/LDPE、LLDPE製品，生產技術則有粉漿（slurry phase）的HDPE、管式反應器（tubular）/槽式反應器（vessel）的EVA/LDPE及流體化床氣相法（fluidized-bed gas phase）的LLDPE製程。

本事業部成立於1983年，並於1984年於高雄林園設置第一套高密度聚乙烯廠（目前年產能提升至18萬噸）；隨著雲林麥寮第六輕油裂解廠的設置，本事業部於1998年起陸續完成第二套高密度聚乙烯廠（目前年產能提升至35萬噸），年產能24萬噸的聚乙烯醋酸乙烯酯廠（EVA/LDPE）以及26萬噸的線性低密度聚乙烯。

本事業部經過多年不斷的研發及改善，開創了目前全球少數能夠以粉漿製程技術兼具生產高強度薄膜、管材及中空成型製品三位一體的HDPE生產廠，持續滿足了不同客戶的需求。同時，在全球的製程技術領域裡是極少數能夠以同一種反應器兼具生產LDPE及EVA產品切換的專業EVA廠。

長久以來，本事業部對品質秉持的理念是追求至上，止於至善。除通過了ISO-9001、ISO14001、ISO18001等系統認證外，更進一步取得美國食品藥物管理局（FDA）、歐盟限制危害物質（RoHS）驗證，以作為對客戶的品質保證。

## Briefing Of Polyolefin Division

The Formosa Plastics Group now includes Formosa Plastics Corporation、Nan Ya Plastics Corporation、Formosa Chemicals & Fibre Corporation、Formosa Petrochemical Corporation, and more than 100 other investments in Taiwan、the United States、China and Indonesia. Polyolefin Division belongs to Formosa Plastics Corporation, produces all the density polyethylene, includes HDPE、EVA/LDPE、LLDPE, the processes technology contain slurry phase for HDPE and fluidized-bed gas phase for LLDPE, both tubular and vessel process for EVA/LDPE.

Our division was founded in 1983, at start-up the first HDPE plant in Lin Yuan in 1984 (now annual production capacity is 180,000 tons). Followed by the completion of the NO. 6 Naphtha Cracking plant, in the begin of 1998, our division completed continuously the second HDPE plant in Mailiao (annual production capacity is 350,000 tons), 240,000 tons of EVA/LDPE and 260,000 tons of LLDPE.

Over the years, we have devoted to enhance the ability of research & development and quality improvement, we are able to serve a wide range of applications for film extrusion, pipe extrusion, blow molding in unique slurry HDPE process. Meanwhile we own switch high-pressure plant for LDPE and EVA grades. As a consequence, we can continual on meeting customer needs and the industry's highest standards.

Formosa Plastics Corporation is committed to achieving customer satisfaction and performance excellence. In addition to obtain ISO9001, ISO14001, ISO18001 certification, and further get the certification of FDA, RoHS to offer our quality assurance for customers.

## HDPE 台塑烯高密度聚乙烯



台塑烯高密度聚乙烯為日本丸善低壓 CSTR 粉漿製程產品，具高衝擊、高剛性、良好耐化學性、高耐環境應力龜裂性、良好電氣性質，因此廣泛應用於薄膜、吹製、射出、扁紗。我們使用改良的重合技術生產桶級及管級。依照 ISO 12162:1995(E)，8001為PE 100等級樹脂(最小需求強度MRS為10MPa)，能承受在20°C、10MPa的最小環向應力作用下達50年以上。桶級7500和7501可用於生產220公升之化學桶。

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

### 高密度聚乙烯 High Density Polyethylene ( HDPE )

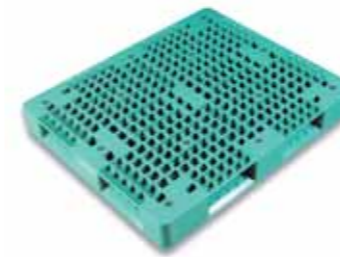
| 品別<br>Grade                    | 基本物性<br>Basic Properties | 熔融指數<br>Melt Index<br>MI <sub>2.16</sub> /MI <sub>21.6</sub> | 密度<br>Density     | 熔點<br>Melting point | 拉力降伏強度<br>Tensile strength at yield | 拉力斷裂強度<br>Tensile strength at break | 斷裂伸長率<br>Elongation at break | 艾氏衝擊強度<br>Izod Impact Strength | 硬度<br>Hardness | 耐環境應力<br>龜裂性<br>ESCR  | 用途<br>Application   |
|--------------------------------|--------------------------|--|-------------------|---------------------|-------------------------------------|-------------------------------------|------------------------------|--------------------------------|----------------|---|---|
|                                | 單位 Unit                  | g/10min  | g/cm <sup>3</sup> | °C                  | Kg/cm <sup>2</sup>                  | Kg/cm <sup>2</sup>                  | %                            | Kg-cm/cm notch                 | Shore D        | Hours   |   |
|                                | 測試方法 Method              | ASTM D1238   | ASTMD1505         | DSC                 | ASTM D638                           | ASTM D638                           | ASTM D638                    | ASTM D256                      | ASTM D2240     | ASTM D1693  |   |
| 薄膜級<br>Blown Film              | 9000                     | 0.07   | 0.950             | 130                 | 260                                 | 370                                 | 850                          | 22                             | 65             | 500   | 小型購物袋、點斷袋、超薄袋 Small shopping bag. Roll bag. Super thinness bag.   |
|                                | 9001                     | 0.05   | 0.950             | 130                 | 260                                 | 380                                 | 800                          | 22                             | 65             | >1000   | 購物袋、點斷袋、垃圾袋、排水管 Shopping bag. Roll bag. Garbage bag. Underground sewer pipe.  |
| 扁紗級<br>Flat Yam & Monofilament | 8010                     | 1.0  | 0.956             | 134                 | 295                                 | 390                                 | 1000                         | NB                             | 69             | —   | 繩、網、帆布、編織袋、發泡板 Ropes. nets. Tarpaulin. Woven bags. Foam sheet.  |
|                                | 8012                     | 1.1  | 0.957             | 134                 | 300                                 | 380                                 | 1000                         | NB                             | 69             | —   | 繩、網、帆布、編織袋、發泡板 Ropes. nets. Tarpaulin. Woven bags. Foam sheet.  |
| 中空吹製級<br>Blow molding          | 8006                     | 0.55   | 0.960             | 134                 | 280                                 | 300                                 | 800                          | 15                             | 70             | 30  | 輕量容器、鮮奶容器、液體飲料容器 Lightweight container for milk, distilled water, fruit juices  |
|                                | 8003                     | 0.25   | 0.958             | 134                 | 300                                 | 320                                 | 1000                         | 25                             | 69             | 30  | 食品容器、鮮奶容器、醫藥品罐、工具箱 Food packaging bottle. dairy bottle. Medicine cans. Tool box.  |
|                                | 8003H                    | 0.30   | 0.958             | 134                 | 300                                 | 320                                 | 1000                         | 45                             | 69             | 30  | 食品容器、鮮奶容器、醫藥品罐、工具箱 Food packaging bottle. dairy bottle. Medicine cans. Tool box.  |
|                                | 7003                     | 0.35   | 0.955             | 132                 | 300                                 | 350                                 | 1000                         | 25                             | 67             | 70  | 小型物件、工業用品、農機用具 Household and Industrial chemical bottle. Agricultural part.   |
|                                | 9003                     | 0.25   | 0.952             | 132                 | 270                                 | 300                                 | 1000                         | 13                             | 66             | 200   | 清潔用品瓶、機油瓶、工具箱、鞋楦、玩具 Detergent & Bleach Engine oil bottle. Shoe last. Tool box. Toys.  |
|                                | 7001                     | 0.07 / 9.0   | 0.949             | 131                 | 250                                 | 350                                 | 600                          | 30                             | 65             | >600  | 20-150L 化學桶、農藥容器、工業用品 Chemical tanks (up to 150L). Agricultural tanks. big Industrial parts.  |
|                                | 7501                     | 0.02 / 4.0   | 0.951             | 134                 | 270                                 | 380                                 | 800                          | NB                             | 67             | >1000   | 200L 開口、雙 L 環化學桶、工業棧板 Open-top type Drum. L-ring type Drum (up to 220L). Blow pallets   |
| 管級 Pipe                        | 8001 / 8001U             | 0.05 / 7.0   | 0.948             | 129                 | 240                                 | 360                                 | 850                          | 30                             | 64             | >1000   | PE100 本色料、飲用水管、壓力管、污水管、化學用管、電纜套管 Natural PE100. Potable water pipe. Pressure pipe. Sewer & drain pipe. Chemical pipe. Cable conduct pipe. |
|                                | 8001BL                   | 0.05 / 7.0   | 0.958             | 129                 | 240                                 | 360                                 | 850                          | 30                             | 64             | >1000   | PE100 黑色混配料、飲用水管、瓦斯(燃氣)管、污水管、化學用管、電纜套管 Black PE100. Potable water pipe. Gas pipe. Sewer & drain pipe. Chemical pipe. Cable conduct pipe.  |
| 被覆級 Coating                    | 9002                     | 0.15   | 0.948             | 129                 | 250                                 | 330                                 | 800                          | 18                             | 65             | >1000   | 鋼管被覆材、鋼纜被覆材 Steel Pipe Coating. Steel wire rope-coating.  |
| 通信電纜級 Wire & Cable             | 9007                     | 0.80   | 0.951             | 130                 | 230                                 | 250                                 | 600                          | 6                              | 65             | >48   | CCP 芯線絕緣、F.S 通信電纜 Telephone wire insulation (CCP). Outer skin in "foam-skin" (F.S).   |
| 射出級<br>Injection molding       | 9040                     | 4.0  | 0.953             | 131                 | 230                                 | 240                                 | 900                          | 10                             | 66             | —   | 各式瓶蓋、高韌性射出品 Bottle cap. High Toughness Parts.   |
|                                | 8040                     | 4.0  | 0.957             | 132                 | 300                                 | 260                                 | 900                          | 12                             | 69             | —   | 塑膠棧板、油漆桶、大型搬運箱、工業容器 Pallet. Pails. Waste Carts. Industrial containers.  |
|                                | 8050                     | 6.0  | 0.960             | 133                 | 310                                 | 240                                 | 900                          | 6                              | 70             | —   | 啤酒箱、搬運箱、醫療用具、休閒桌椅、運動護具、塑膠水塔、玩具用組件、工業用安全帽 Crates. Boxes. Seats. Pallet.  |
|                                | 8070                     | 6.0  | 0.961             | 135                 | 310                                 | 240                                 | 900                          | 8                              | 70             | —   | 啤酒箱、搬運箱、醫療用具、休閒桌椅、運動護具、塑膠水塔、玩具用組件、工業用安全帽 Crates. Boxes. Seats. Pallet.  |
|                                | 7200                     | 22   | 0.955             | 133                 | 285                                 | 150                                 | 700                          | 3.5                            | 67             | —   | 一般家用盆具、菜砧、玩具、涼椅、塑膠標籤裝飾品 Housewares. Thin Walled Food Containers. PET bottle base cup.   |
|                                | 8230                     | 21   | 0.952             | 131                 | 270                                 | 150                                 | 800                          | 4                              | 67             | —   | 一般家用盆具、菜砧、玩具、涼椅、塑膠標籤裝飾品 Housewares. Thin Walled Food Containers. PET bottle base cup.   |
| 8300                           | 30                       | 0.952  | 131               | 270                 | 150                                 | 700                                 | 3                            | 67                             | —              | 一般家用盆具、菜砧、玩具、涼椅、塑膠標籤裝飾品 Housewares. Thin Walled Food Containers. PET bottle base cup. |   |

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

## TAISOX® High Density Polyethylene

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

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



台灣塑膠工業股份有限公司 聚烯事業部 Formosa Plastics Corporation, Polyolefin Division

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## LDPE 台塑烯低密度聚乙烯



台塑烯低密度聚乙烯 (LDPE) 採用 Enichem 高壓製程技術生產，此製程包含管式法及槽式法。藉管式及槽式不同的製程生產特性，使台塑烯LDPE能提供寬廣特性產品來滿足客戶多樣變化需求。

台塑烯 LDPE 具優異加工特性、良好光學性質，使台塑烯LDPE能廣泛應用於農業用膜、重包裝膜、一般包裝膜、收縮膜、淋膜押出及射出發泡、中空吹製等產品。

台塑烯 LDPE 所有品別均符合美國 FDA 21-177-1520 規範以及歐盟限制危害物質限令(RoHS)。

## TAISOX® Low Density Polyethylene

TAISOX® Low Density Polyethylene(LDPE) resin is produced via high pressure process technology from Enichem,Italy. It has two processes including tubular process and autoclave process.TAISOX® LDPE can supply a wide range of products by using the characteristics of above precesses, to satisfy diverse demands of customers.

TAISOX® LDPE has excellent processability,optical properties. It can be used for many applications such as agricultural film,heavy duty bag ,general purpose packaging film ,shrink film ,extrusion coating,injection molding ,foamed,and blow molding products etc.

All LDPE products complies with FDA 21-177-1520, RoHS.



### 低密度聚乙烯 Low Density Polyethylene ( LDPE )

| 品別<br>Grade              | 基本物性<br>Basic Properties | 熔融指數<br>Melt Index<br>MI <sub>2.16</sub> | 密度<br>Density     | 熔點<br>Melting point | 拉力降伏強度<br>Tensile strength at yield | 拉力斷裂強度<br>Tensile strength at break | 斷裂伸長率<br>Elongation at break | 硬度<br>Hardness | 抗撕裂性<br>Tear resistance (elmendorf) | 落球衝擊強度<br>Dart drop test | 摩擦係數<br>Coefficient of friction(COF) | 濁度<br>Haze | 光澤度<br>Gloss 45° | 滑劑<br>Slip agent | 抗黏劑<br>Anti blocking agent | 用途<br>Application   |
|--------------------------|--------------------------|--|-------------------|---------------------|-------------------------------------|-------------------------------------|------------------------------|----------------|-------------------------------------|--------------------------|--------------------------------------|------------|------------------|------------------|----------------------------|---|
|                          | 單位 Unit                  | g/10min                                  | g/cm <sup>3</sup> | °C                  | Kg/cm <sup>2</sup>                  | Kg/cm <sup>2</sup>                  | %                            | Shore D        | N / mm                              | g                        |                                      | %          | %                | 等級 level         | 等級 level                   |   |
|                          | 測試方法 Method              | ASTM D1238                               | ASTMD1505         | DSC                 | ASTM D638                           | ASTM D638                           | ASTM D638                    | ASTM D2240     | ASTM D1922 MD/TD                    | ASTM D1709               | ASTM D1894                           | ASTMD1003  | ASTM D2457       |                  |                            |   |
| 薄膜級<br>Blown Film        | 6323F                    | 2.5                                      | 0.918             | 107                 | 100                                 | 150                                 | 600                          | 52             | 70/50                               | 100                      | < 0.13                               | 13         | 60               | 中 Medium         | 無 None                     | 一般包裝膜、夾鏈袋、中空吹製、發泡緩衝材<br>General film. Zipper bag.Blow molding.X-linked Foam.      |
|                          | 6330F                    | 2.1                                      | 0.924             | 113                 | 100                                 | 150                                 | 600                          | 53             | 70/50                               | 100                      | > 0.5                                | 6.5        | 95               | 無 None           | 無 None                     | 一般包裝膜、積層膜<br>General transparent- film. Lamination-film.                          |
|                          | 6334F                    | 2.1                                      | 0.924             | 113                 | 100                                 | 150                                 | 600                          | 53             | 80/50                               | 100                      | < 0.12                               | 6.5        | 95               | 高 High           | 中 Medium                   | 一般包裝膜、積層膜<br>General transparent- film. Lamination-film.                          |
|                          | 6634F                    | 8.0                                      | 0.924             | 112                 | 110                                 | 120                                 | 500                          | 52             | 80/60                               | 65                       | < 0.12                               | 8          | 90               | 高 High           | 中 Medium                   | 輕包裝膜、一般射出<br>Thin transparent-film. Injection-articles                            |
| 淋膜級 Coating              | 6520G                    | 8.0                                      | 0.916             | 105                 | 90                                  | 110                                 | 500                          | 52             | —                                   | —                        | —                                    | —          | —                | —                | —                          | 鋁箔紙淋膜、一般射出品、發泡<br>Coating on Aluminum paper substrates. Injection-articles. Foam. |
| 射出級<br>Injection molding | 6630M                    | 25                                       | 0.918             | 106                 | 120                                 | 90                                  | 400                          | 50             | —                                   | —                        | —                                    | —          | —                | —                | —                          | 玩具、罐蓋、家庭用品、聖誕燈飾、浸漬塗膠<br>Housewares.High gloss toys.Low thickness artides.         |
|                          | 6810M                    | 50                                       | 0.915             | 104                 | 90                                  | 100                                 | 500                          | 45             | —                                   | —                        | —                                    | —          | —                | —                | —                          | 塑膠花葉、瓶蓋、薄細小射出、粉末塗覆不織布成衣裡襯<br>Artificial flowers. Thin articles. Powder coating.   |

(1) 薄膜加工條件：螺桿=60mm ψ、L/D=30、吹袋比=2.5，膜厚 30 μ (MI>1.2) / 50 μ (MI<1.2)。

Film processing : screw=60mm ψ、L/D=30、BUR=2.5，film thickness= 30 μ (MI>1.2) / 50 μ (MI<1.2)。

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

台灣塑膠工業股份有限公司 聚烯事業部 Formosa Plastics Corporation, Polyolefin Division

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## LLDPE 台塑烯線性低密度聚乙烯



台塑烯線性低密度聚乙烯為BP先進的 INNOVENE 技術製程產品，此氣相製程在精確的控制及添加劑的選用下，使台塑烯 LLDPE 表現出多樣的良好性質，如優越的薄膜強度、良好的加工性、良好的熱封性、優異的光學性質，使台塑烯 LLDPE 能應用於各種包裝用途，如農膜、重包裝膜、一般用途膜、貼合膜、纏繞膜。

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



## TAISOX® Linear Low Density Polyethylene

TAISOX® Linear Low Density Polyethylene plastic resin is the product of advanced technology INNOVENE from BP.Ltd.UK. This gas phase process under careful process control and additive selection make TAISOX® LLDPE outstanding for various good properties. Such as excellent film strength, good processability, good heat-seal, superior optical properties. It can be used for many application for package. for example film for agricultural, heavy duty, general purpose, lamination, stretching.

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



### 線性低密度聚乙烯 Linear Low Density Polyethylene ( LLDPE )

| 品別<br>Grade            | 基本物性<br>Basic Properties | 熔融指數<br>Melt Index<br>MI <sub>2.16</sub> | 密度<br>Density     | 熔點<br>Melting point | 拉力降伏強度<br>Tensile strength at yield | 拉力斷裂強度<br>Tensile strength at break | 斷裂伸長率<br>Elongation at break | 抗撕裂性<br>Tear resistance (elmendorf) | 落球衝擊強度<br>Dart drop test | 硬度 Hardness<br>艾氏衝擊強度#<br>Izod Impact Strength | 濁度<br>Haze | 光澤度<br>Gloss 45° | 透明度<br>Clarity | 滑劑<br>Slip agent | 抗黏劑<br>Anti blocking agent | 用途<br>Application   |
|------------------------|--------------------------|--|-------------------|---------------------|-------------------------------------|-------------------------------------|------------------------------|-------------------------------------|--------------------------|--|------------|------------------|----------------|------------------|----------------------------|---|
|                        | 單位 Unit                  | g/10min                                  | g/cm <sup>3</sup> | °C                  | Kg/cm <sup>2</sup>                  | Kg/cm <sup>2</sup>                  | %                            | N / mm                              | g                        | Shore D<br>Kg-cm/cm notch#                     | %          | %                | %              | 等級 level         | 等級 level                   |   |
|                        | 測試方法 Method              | ASTM D1238                               | ASTMD1505         | DSC                 | ASTM D638                           | ASTM D638                           | ASTM D638                    | ASTM D1922 MD/TD                    | ASTM D1709               | ASTM D2240<br>ASTM D256 #                      | ASTM D1003 | ASTM D2457       |                |                  |                            |   |
| 丁烯薄膜級<br>C4 Blown Film | 3210                     | 1.0                                      | 0.920             | 122                 | 100                                 | 410                                 | 620                          | 145/370                             | 150                      | —  | 11         | 93               | 84             | 無 None           | 無 None                     | 重包裝袋、農業用膜、工業用袋、伸縮膜、內襯膜<br>Heavy duty sacks. Agricultural films.<br>Liners Produce bags. Stretch film. |
|                        | 3214                     |  |                   |                     | 110                                 | 320                                 | 840                          |                                     |                          |  | 12         | 88               | 70             | 中 Medium         | 中 Medium                   |   |
|                        | 3220                     | 2.0                                      | 0.919             | 122                 | 100                                 | 360                                 | 600                          | 40/430                              | 120                      | —  | 16         | 72               | 82             | 無 None           | 無 None                     | 各類購物袋、輕/中包裝膜、超薄膜伸縮膜<br>Light, Medium duty film. Stretch film.   |
|                        | 3224                     |  |                   |                     | 110                                 | 280                                 | 800                          |                                     |                          |  | 18         | 68               | 63             | 中 Medium         | 中 Medium                   |   |
|                        | 3224D                    |  |                   |                     | 110                                 | 280                                 | 800                          |                                     |                          |  | 19         | 64               | 49             | 中 Medium         | 高 High                     |   |
| 丁烯平膜級<br>C4 Cast Film  | 3225                     | 2.0                                      | 0.919             | 122                 | 110                                 | 280                                 | 800                          | 110/300                             | 120                      | —  | 3          | 105              | 95             | 無 None           | 無 None                     | 保鮮膜、纏繞膜、捆包膜、伸縮膜<br>Cast Stretch film. Overwrap Film.  |
| 迴轉成型<br>Rotation       | 3840                     | 5.0                                      | 0.938             | 125                 | 150                                 | 220                                 | >1000                        | —                                   | —                        | 60/20#   | —          | —                | —              | —                | —                          | 方型桶、超大型水桶、塑膠水塔、塑膠路障<br>Large Crate Containers. Tank. Barricade.                                       |
| 射出級<br>Injection       | 3470                     | 21                                       | 0.924             | 122                 | 117                                 | —                                   | 850                          | —                                   | —                        | 55   | —          | —                | —              | —                | —                          | 一般家用盆具、食物包裝盒、各式用途軟蓋   |
|                        | 3490                     | 50                                       | 0.926             | 124                 | 120                                 | —                                   | 350                          | —                                   | —                        | 56   | —          | —                | —              | —                | —                          | Housewares. Very thin walled food containers. Lids.   |

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

台灣塑膠工業股份有限公司 聚烯事業部 Formosa Plastics Corporation, Polyolefin Division

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## EVA 台塑烯乙烯 - 醋酸乙烯酯共聚物



台塑烯 烯醋酸乙烯酯共聚物 (EVA) 採用 Enichem 高壓製程技術生產，此製程包含管式法及槽式法。目前台塑烯 EVA 能提供VA含量最高達33%的多樣應用品別，來滿足客戶多樣變化需求。

台塑烯 EVA 具優異加工特性、光學性質、低溫熱封性、耐化學性、交鏈發泡性，使台塑烯 EVA 能廣泛應用於溫室棚膜、積層包裝膜、農業用膜、一般包裝膜、押出及射出及鞋材發泡、熱熔膠等產品應用。

台塑烯EVA所有品別均符合美國 FDA 21-177-1350規範以及歐盟限制危害物質指令(RoHS)。

### 乙烯 - 醋酸乙烯酯共聚物 (EVA)

| 品別<br>Grade                                  | 基本物性<br>Basic Properties | 熔融指數<br>Melt Index<br>MI <sub>2.16</sub> | 密度<br>Density     | VA 含量<br>Vinyl Acetate<br>content | 拉力降伏強度<br>Tensile strength<br>at yield | 拉力斷裂強度<br>Tensile strength<br>at break | 斷裂伸長率<br>Elongation<br>at break | 硬度<br>Hardness | 熔點<br>Melting<br>point | 結晶點<br>Freezing<br>point | 軟化溫度 - 維氏法<br>Softening point<br>Vicat | 軟化溫度 - 環 & 球<br>Softening point<br>Ring-and-Ball | 落球衝擊強度<br>Dart drop<br>test   | 用途<br>Application  |
|--|--------------------------|--|-------------------|-----------------------------------|--|--|---------------------------------|----------------|------------------------|--------------------------|--|--|---|--|
|  | 單位 Unit                  | g/10min                                  | g/cm <sup>3</sup> | %                                 | Kg/cm <sup>2</sup>                     | Kg/cm <sup>2</sup>                     | %                               | Shore A/D      | °C                     | °C                       | °C                                     | °C   | g   |  |
|  | 測試方法 Method              | ASTM D1238                               | ASTMD1505         | FPC Method                        | ASTM D638                              | ASTM D638                              | ASTM D638                       | ASTM D2240     | DSC                    | DSC                      | ASTM D1525                             | ASTM E28   | ASTM D1709  |  |
| 薄膜級<br>Film                                  | 7130F                    | 0.9                                      | 0.930             | 9                                 | 60                                     | 180                                    | 650                             | 95 / 45        | 93                     | —                        | —                                      | —  | 550   | 溫室膜、農業膜、醫藥用途<br>Greenhouse film. Agricultural film. Sanitary applications                  |
|  | 7140F                    | 0.7                                      | 0.934             | 14                                | 70                                     | 200                                    | 750                             | 92 / 40        | 90                     | —                        | —                                      | —  | 620   | 溫室膜、農業膜、醫藥用途<br>Greenhouse film. Agricultural film. Sanitary applications                  |
|  | 7350F                    | 1.8                                      | 0.938             | 18                                | 45                                     | 150                                    | 800                             | 88 / 38        | 84                     | —                        | —                                      | —  | 650   | 發泡鞋材、醫藥用途、吸震材料、PEVA 膠布<br>Greenhouse film. Sanitary applications. Gaskets. PEVA sheeting.  |
| 射出級<br>&<br>發泡級<br>Injection<br>&<br>Foaming | 7240M                    | 1.5                                      | 0.935             | 15                                | 55                                     | 150                                    | 700                             | 92 / 42        | 87                     | —                        | —                                      | —  | —   | 發泡鞋材、交聯發泡板 X-linked Foam - Sandal, Slipper.  |
|  | 7310M                    | 2.5                                      | 0.928             | 6                                 | 80                                     | 150                                    | 700                             | 98 / 47        | 102                    | —                        | —                                      | —  | —   | 可撓性物件、交聯發泡板 Flexible items. X-linked Foam  |
|  | 7320M                    | 4.0                                      | 0.930             | 9                                 | 60                                     | 140                                    | 700                             | 96 / 46        | 96                     | —                        | —                                      | —  | —   | 可撓性物件、交聯發泡板 Flexible items. X-linked Foam  |
|  | 7340M                    | 2.5                                      | 0.934             | 14                                | 80                                     | 140                                    | 700                             | 96 / 45        | 90                     | —                        | —                                      | —  | —   | 可撓性物件、交聯發泡板 Flexible items. X-linked Foam  |
|  | 7350M                    | 2.5                                      | 0.938             | 18                                | 45                                     | 150                                    | 800                             | 88 / 38        | 84                     | —                        | —                                      | —  | —   | 發泡鞋材、吸震材料、PEVA 膠布<br>X-linked Foam-shoes, Mid-sole. Gaskets. PEVA sheeting.                |
|  | 7360M                    | 2.5                                      | 0.941             | 21                                | 40                                     | 180                                    | 800                             | 86 / 36        | 80                     | —                        | —                                      | —  | —   | 發泡鞋材、吸震材料、板材保護膜<br>X-linked Foam-shoes, Mid-sole. Gaskets. Protecting film.                |
|  | 7470M                    | 6.0                                      | 0.948             | 26                                | 30                                     | 140                                    | 800                             | 82 / 32        | 76                     | —                        | —                                      | —  | —   | 交聯發泡板、吸震材料、混摻色母料、押出建材<br>X-linked Foam. Gaskets. Blend polymer. Build materials Wallpaper. |
| 7660M  | 20                       | 0.940                                    | 20                | 30                                | 110                                    | 800                                    | 83 / 32                         | 83             | —                      | —                        | —                                      | —  | 射出品、積層押出、交聯發泡板、熱熔膠<br>Injection. Lamination Extrusion-coating. X-linked Foam. Hot melt. |  |
| 粉末塗覆級<br>Powder coating                      | 7920M                    | 80                                       | 0.930             | 8                                 | 15                                     | 80                                     | 600                             | 96 / 45        | 96                     | —                        | —                                      | —  | —   | 不織布纖維之粉末壓燙貼合、熱熔膠<br>Powder coating for non-woven & fabrics. Hot melt.                      |
| 熱熔膠級<br>Hot melt                             | 7760H                    | 25                                       | 0.945             | 28                                | —                                      | 72                                     | 800                             | — / 25         | 70                     | 51                       | 36                                     | 84   | —   | 書籍裝訂膠、自動包裝膠、合板膠、熱熔膠<br>packaging bookbinding woodworking various assemblies                |
|  | 7A50H                    | 150                                      | 0.934             | 19                                | —                                      | 70                                     | 700                             | 73 / 23        | 82                     | 62                       | 43                                     | 92   | —   |  |
|  | 7B50H                    | 400                                      | 0.933             | 19                                | —                                      | 40                                     | 660                             | 72 / 22        | 77                     | 55                       | 39                                     | 91   | —   |  |
|  | 7A60H                    | 150                                      | 0.938             | 28                                | —                                      | 40                                     | 800                             | 67 / 16        | 71                     | 50                       | 33                                     | 81   | —   |  |
| 7B60H  | 400                      | 0.942                                    | 28                | —                                 | 20                                     | 750                                    | 68 / 18                         | 77             | 55                     | 34                       | 82                                     | —  |   |  |

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

## TAISOX<sup>®</sup> Ethylene Vinyl Acetate Copolymer

TAISOX<sup>®</sup> Ethylene Vinyl Acetate Copolymer (EVA) resin is produced via high pressure process technology from Enichem, Italy. It has two processes including tubular process and autoclave process. TAISOX<sup>®</sup> EVA now produces various EVA copolymers grades with vinyl acetate (VA) content up to 33% to satisfy diverse demands of customers.

TAISOX<sup>®</sup> EVA has excellent processability, transparency, low temperature sealing, chemical resistant, and crosslinking foaming. It can be used for many applications such as greenhouse film, laminate film, agricultural film, packaging film, extrusion, injection molding and expanded foam (shoes, soles), hot melt applications etc.

All EVA products comply with U.S. FDA 21-177-1350, RoHS.



台灣塑膠工業股份有限公司 聚烯事業部 Formosa Plastics Corporation, Polyolefin Division

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