

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，此氣相製程使用丁烯為共重合單體，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，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。

品別3840為丁烯共重合迴轉成型用料，具有良好的成型特性，品別3840U已加入抗紫外線劑。

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 CFR 177.1520規範以及歐盟限制危害物質限令(RoHS)、高度關注物質清單(SVHC)、食品包裝容器規定(EU, NO10/2011)、玩具製品重金屬含量規定(EN71)。

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 packaging applications. For example film for agricultural, heavy duty, general purpose, lamination, stretching etc.

Grade 3840 is butene copolymer for rotational molding with good processability, and grade 3840U content with light stabilizer.

All LLDPE products contain anti-oxidants and comply with US 21 CFR177.1520, RoHS, REACH SVHC, EU NO10/2011, EN71.



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

| 品別 Grade | 基本物性 Basic Properties | 熔融指數 Melt Index MI _{2.16} | 密度 Density | 熔點 Melting point | 拉力降伏強度 Tensile strength at yield | 拉力斷裂強度 Tensile strength at break | 斷裂伸長率 Elongation at break | 抗撕裂性 Tear resistance (elendorf) |
|------------------------|-----------------------------|--|-------------------|------------------------|--|--|---------------------------------|---------------------------------------|
| | 單位 Unit | g/10min | g/cm ³ | °C | Kg/cm2 | Kg/cm2 | % | N/mm |
| | 測試方法 Method | ASTM D1238 | ASTMD1505 | DSC | ASTM D638 | ASTM D638 | ASTM D638 | ASTM D1922 MD/TD |
| 丁烯薄膜級 C4 Blown Film | 3210 | 1.0 | 0.920 | 122 | 100 | 410 | 620 | 145/370 |
| | 3214 | | 0.922 | | 110 | 320 | 840 | |
| | 3220 | 2.0 | 0.920 | 122 | 100 | 360 | 600 | 40/430 |
| | 3224 | | 0.922 | | 110 | 280 | 800 | |
| | 3224D | | 0.924 | | 110 | 280 | 800 | |
| 丁烯平膜級 C4 Cast Film | 3225 | 2.0 | 0.920 | 122 | 110 | 280 | 800 | 110/300 |
| 迴轉成型 Rotation | 3840 | 5.0 | 0.935 | 125 | 150 | 220 | >1000 | — |
| | 3840U | 5.0 | 0.935 | 125 | 150 | 220 | >1000 | — |
| 押出級 Extrusion | 3440 | 4.0 | 0.925 | 123 | 115 | — | 800 | — |
| | 3450 | 8.0 | 0.925 | 123 | 115 | — | 800 | — |
| | 3460 | 14 | 0.926 | 124 | 120 | — | 850 | — |
| 射出級 Injection | 3470 | 23 | 0.926 | 122 | 117 | — | 850 | — |

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.

| 落球衝擊強度 Dart drop test | 硬度Hardness 艾氏衝擊強度# Izod Impact Strength | 濁度 Haze | 光澤度 Gloss 45° | 透明度 Clarity | 滑劑 Slip agent 等級 level | 抗黏劑 Anti blocking agent 等級 level | 用途 Application |
|-----------------------------|--|---------------|---------------------|----------------|------------------------------|--|---|
| g | Shore D Kg-cm/cm | % | % | % | 等級 level | 等級 level | |
| ASTM D1709 | ASTM D2240 ASTM D256# | ASTM D1003 | ASTM D2457 | | | | |
| 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 Heavy duty sacks. Agricultural films. Liners Produce bags. Stretch film. |
| | | 12 | 88 | 70 | 中 Medium | 中 Medium | |
| 120 | — | 16 | 72 | 82 | 無 None | 無 None | 各類購物袋、輕、中包裝膜、超薄膜伸縮膜 Light, Medium duty film. Stretch film. |
| | | 18 | 68 | 63 | 中 Medium | 中 Medium | |
| | | 19 | 64 | 49 | 中 Medium | 高 High | |
| 120 | — | 3 | 105 | 95 | 無 None | 無 None | 保鮮膜、纏繞膜、捆包膜、伸縮膜 Cast Stretch film. Overwrap Film. |
| — | 60/20# | — | — | — | — | — | 方型桶、超大型水桶、塑膠水塔、塑膠路障 Large Crate Containers. Tank. Barricade. |
| — | 60/20# | — | — | — | — | — | 方型桶、大型水桶、塑膠水塔、塑膠路障 (3840U含抗紫外線劑) Large Crate Containers. Tank. Barricade.(3840U light stabilizer added.) |
| — | 55 | — | — | — | — | — | PE 膠布 PE Sheet |
| — | 55 | — | — | — | — | — | |
| — | 56 | — | — | — | — | — | |
| — | 55 | — | — | — | — | — | 一般家用盆具、食物包裝盒、各式用途軟蓋 Housewares. Thin walled food containers. Soft lids. |

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