



超塑烯 UE630 乙稀·醋酸乙稀酯
EVATHENE UE630 共聚合塑膠
EVA Copolymer Resin

技 術 資 料

臺灣聚合化學品股份有限公司

密度 : 0.937 g/cm³
醋酸乙稀酯含量 : 16 %
熔融指數 : 1.5 g/10min

加工方法：壓縮成型(發泡)、吹壓成型、射出成型、剖面擠壓、膜片擠壓

特性及用途

超塑烯 UE630 是一種共聚合塑膠，具有很多優異特性，包括：柔軟而有彈性，透明、無毒，抗外界應力龜裂性很強，抗衝擊强度高，低溫柔軟性很好，以及加工容易等，所以可用以開發新用途，及替代軟質 PVC、橡膠與其他彈性材料。

新用途之一，是添加潤滑劑、交聯劑及發泡劑，以壓縮成型法製造發泡拖鞋底。這種加工業，目前在遠東地區極為盛行。

用以代替軟質 PVC 的原因，是由於軟質 PVC 含可塑劑，該劑有揮發而發臭及變硬等缺點，而超塑烯 UE630 則無，且品質符合相同的要求。

吹壓成型成品如瓶子或中空的玩具，射出成型成品如打字機與計算機的腳墊及游泳腳具，剖面擠壓成品如電冰箱與玻璃窗的襯墊及管子等，既具有橡膠的彈性，又不必像橡膠加工需經硫化過程，而可直接成型。

膜片擠壓加工，如鑄膜擠壓及共擠壓的成品，可作醫療與醫藥材料的特殊包裝，及食品的裹包與包裝之用。

超塑烯 UE630 符合美國食品藥物管理局 (FDA) 的規定，是安全衛生的。

Technical Data Sheet

USI CORPORATION

Density : 0.937 g/cm³
VA Content : 16 %
Melt Index : 1.5 g/10min

Processing Methods : Compressing Molding(foam), Blow Molding, Injection Molding, Profile Extrusion, Sheet Extrusion

Characteristics and Applications

EVATHENE UE630 is one of ethylene vinyl acetate copolymer resin family possessing manifold of excellent characteristics including flexibility, elasticity, transparency, non-toxicity, good resistance to environmental stress cracking, low temperature flexibility, easy processability and etc. The characteristics of EVATHENE UE630 which permit its use for developing new applications and substituting for flexible PVC, rubbers and other elastomers. It could be developed for many new applications and substitute for flexible PVC, rubbers, and other elastomers.

One of the new applications is the incorporation of lubricants, crosslinking agents and foaming agents with EVATHENE UE630 for compression molding of foamed shoe soles. The kind of industry is most popular at present in the Far East area.

The reason of substituting EVATHENE UE630 for flexible PVC is : the plastized PVC is odorous and becomes harder whereas EVATHENE UE630 has no such defect thus it meets the customer's acceptance much better.

EVATHENE UE630 is similar to rubber in elasticity. Unlike rubber it requires no curing and can be directly moldied. EVATHENE UE630 is used for : blow molding of bottles and toys; injection molding of swimming paddles and cushions of typewriters and calculators. Profile extrusion of tubes or gasketing for refrigerators and windows.

EVATHENE UE630 is extruded to sheet such as casting and co-extrusion for special packaging of hospital and medical materials, food packaging and other packaging.

EVATHENE UE630 meets the requirement of the U.S. Food and Drug Administration regulation. It is safe and hygienic.

加工條件

壓縮成型 (製造發泡鞋底)

配方：① 超塑烯 UE630 100 份
② 潤滑劑 (硬脂酸) 1 份
③ 交聯劑 (DCP) 1 份
④ 發泡劑 (ADCA) 2 份
⑤ 充填料 (CaCO₃) 50~100 份

將上述配方依序在雙輥機混合,前輥為 100 , 後輥可稍低, 混合後所得之膜胚在 170 之熱壓機加熱約 10~15 分鐘後, 快速打開熱壓板, 由模型中取出製品。

成品物理性質：

Product Physical Properties:

項 目 Properties	試 驗 方 法 Test Method	數 值 Typical Value
硬度 (蕭氏 A) Hardness (Shore A)	ASTM D2240	65
抗張強度 (kg/cm ²) Tensile Strength (Break)	ASTM D1623	27
伸長率 (%) Elongation	ASTM D1623	250
抗撕力 (kg/cm) Tear Strength	ASTM D1623	11
發泡率 (倍) Foaming Rate	USIFE	3

據本公司所知, 上述資料應屬正確無誤, 惟因使用時之情況非受本公司管制, 所以本公司對上述所作之一切建議, 恕不負保證之責。

Processing Condition

Compression molding (shoe sole foam)

Formulation : ① EVATHENE UE630 100 parts
② Lubricant(Stearic acid) 1 part
③ Crosslinking agent(DCP) 1 part
④ Blowing agent(ADCA) 2 parts
⑤ Filler(CaCO₃) 50~100 parts

All the materials are mixed on two-roll mill orderly. The front roll temperature is kept at 100 , and back roll is operated at lower temperature. The well mixed preform is then compression molded at 170 for 10~15 minutes. The hot plate is opened quickly and the product is taken from the mold.

The information contained herein is, to our best knowledge, true and accurate. However, since conditions of use are beyond our control, all risks of such use are assumed by users.