



超塑烯 UE631 乙烯. 醋酸乙烯酯  
EVATHENE UE631 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	:	0.942 g/cm <sup>3</sup>
醋酸乙烯酯含量	:	22 %
熔融指數	:	1.4 g/10min

加工方法：壓縮成型(發泡)，吹膜擠壓

#### 特性及用途

超塑烯 UE631 是一種共聚合塑膠，具有柔軟、彈性、透明、無毒等特性，同時抗外界應力龜裂性、抗衝擊強度及低溫柔軟性均極優異，而且加工十分容易，因此可用於開發各種新用途，特別是替代軟質 PVC、橡膠與其他彈性材料。

超塑烯 UE631 主要用途係在添加交聯劑及發泡劑後，以壓縮成型法或射出成型法製造發泡鞋底，由於成品兼具柔軟度及物理強度，因此廣受客戶喜愛。此外，超塑烯 UE631 亦可用於射出成型、異型擠壓以及添加適當添加劑後用於吹膜擠壓。

超塑烯 UE631 符合美國食品藥物管理局 (FDA) 的規定，可安全地使用於食品應用方面。

### Technical Data Sheet

#### USI CORPORATION

Density	:	0.942 g/cm <sup>3</sup>
VA Content	:	22 %
Melt Index	:	1.4 g/10min

Processing Methods : Compressing Molding(foam), Extrusion

#### Characteristics and Applications

EVATHENE UE631 is a high VA content ethylene vinyl acetate copolymer with excellent low temperature impact strength, environmental stress crack resistance, flexibility, elasticity, transparency, and easy processability. It could be developed for many new applications and substitute for flexible PVC, rubbers, and other elastomers. One of major application of EVATHENE UE631 is incorporated with blowing agent and cross-linking agent for compression molding or injection molding of foamed shoe sole. Besides, EVATHENE UE631 could be processed by profile extrusion, injection molding, and blown-extrusion while incorporated with additives.

EVATHENE UE631 meets the requirement of the U.S. Food and Drug Administration regulation. It can be safely used for food containing applications.

## 加工條件

### 壓縮成型 (製造發泡鞋底)

配方：	① 超塑烯 UE631	100 份
	② 潤滑劑 (硬脂酸)	1 份
	③ 交聯劑 (DCP)	1 份
	④ 發泡劑 (ADCA)	1~3 份
	⑤ 充填料 (CaCO <sub>3</sub> )	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。

### 物理性質：

#### Physical Properties:

項 目 Properties	試 驗 方 法 Test Method	數 值 Typical Value
熔融指數 (g/10min) Melt Index	ASTM D1238	1.4
密度 (g/cm <sup>3</sup> ) Density	ASTM D1505	0.942
斷裂點抗張強度 (kg/cm <sup>2</sup> ) Tensile Strength (Break)	ASTM D638	180
斷裂點伸長率 (%) Ultimate Elongation	ASTM D638	800
硬度 蕭氏 A (Shore A)	ASTM D2240	91
Hardness 蕭氏 D (Shore D)	ASTM D2240	34
抗低溫脆裂性( ) Low Temperature Brittleness	ASTM D746	< -76

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 UE631 100 parts  
② Lubricant(Stearic acid) 1 part  
③ Crosslinking agent(DCP) 1 part  
④ Blowing agent(ADCA) 1~3 parts  
⑤ Filler(CaCO<sub>3</sub>) 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.