



**超塑烯 UE638-04 乙烯·醋酸乙烯酯**  
**EVATHENE UE638-04 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 : 0.948 g/cm<sup>3</sup>

醋酸乙烯酯含量 : 28 %

熔融指數 : 18.0 g/10min

加工方法：配製熱熔膠、射出成型、改善其他原料的性質

**特性及用途**

超塑烯 UE638-04 是一種共聚合塑膠，具有很多優異特性，包括：柔軟性與彈性特佳，粘著性優異，耐低溫性良好，相溶性良好，長期加溫不致劣化，以及衛生無毒等，所以可供做下列各用途：

**一、配製熱熔膠**

超塑烯 UE638-04 的熔融指數為 18g/10min.，粘度適中；醋酸乙烯酯含量為 28%，粘著性優異，與大部份的蠟、石油樹脂或松膠等均有良好的相溶性，而且長期加溫不致劣化，所以最適合於配製熱熔膠，以供各種用途，包括：書籍裝訂(代替穿線)、合板製造(蕊板粘合)、紙箱封緘、製鞋、傢俱製作、電子零件粘著等之用。

**二、射出成型**

超塑烯 UE638-04 柔軟而有彈性，因此適合於射製需要柔軟與抗龜裂的用品，如游泳腳具、腳踏車把手，及各種玩具球。

**三、改善其他原料的性質**

超塑烯 UE638-04 與 PVC 或橡膠均有良好的相容性，因此，可加在 PVC 內以改善其抗衝擊強度與耐寒性，或加在橡膠內以改善其加工性。

超塑烯 UE638-04 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 : 0.948 g/cm<sup>3</sup>

VA Content : 28 %

Melt Index : 18.0 g/10min

**Processing Methods : Making Hot Melt, Injection Molding, Modifying Other Materials**

**Characteristics and Applications**

EVATHENE UE638-04 is an EVA copolymer which possesses superb characteristics, included: flexibility and elasticity, excellent adhesion, good low temperature resistance, good compatibility, thermal stability and non-toxicity. The characteristics stated permit to be used for following applications:

**1. Making hot melt:**

Combination of moderate viscosity (MI 18g/10min) and high VA content (28%) adhesion of EVATHENE UE638-04 which is compatible with wax, petroleum resin or rosin for making hot melt. It could be used for book binding and carton sealing and be used as adhesive for making shoes and furniture as well as for binding electronic components.

**2. Injection molding**

The peculiar flexibility and elasticity make EVATHENE UE638-04 be suitably used for injection molding in flexible and tough items such as swimming paddle, bicycle handle and toy balls.

**3. Modifying other materials:**

EVATHENE UE638-04 possesses excellent compatibility with PVC or rubber for improving its impact strength and low temperature resistance while blend with rubber for improving its processability.

EVATHENE UE638-04 meets the requirement of the U.S. Food and Drug Administration (FDA) regulations. It is safe and hygienic.

## 加工條件

### 配製熱熔膠

超塑烯 UE638-04 40 份

增粘劑 40 份

蠟(熔點為 135° F 者) 20 份

把上述配方，在 180 下充份混合即可。

### 製品性質：

軟化點：74

粘度：180 - 7,000 cps

170 - 8,500 cps

160 - 11,200 cps

硬度：88° ShoreA

鋁箔粘著性(1"寬)：1.6kg

### 物理性質：

#### Physical Properties:

項目 Properties	試驗方法 Test Method	數 值 Typical Value
醋酸乙烯酯含量 (%) Vinyl Acetate Content	ASTM USIFE	28
熔融指數 (g/10 min) Melt Index	ASTM D1238	18
密度 (g/cm <sup>3</sup> ) Density	ASTM D1505	0.948
斷裂點抗張強度 (kg/cm <sup>2</sup> ) Tensile Strength (Break)	ASTM D638	169
斷裂點伸長率 (%) Ultimate Elongation	ASTM D638	1020
彈性係數 (kg/cm <sup>2</sup> ) Secant Modulus	ASTM D638	140
環球軟化點 ( ) R&B Softening Point	ASTM E28	125
熔點 ( ) Melt Point	DSC	72
抗低溫脆裂性 ( /F50%) 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

### Making hot melt adhesive

EVATHENE UE638-04 40 parts

Tackifier 40parts

Paraffin wax(135° F) 20parts

Mix the above formulation at 180 thoroughly.

### Physical property of the hot melt:

Softening point: 74

Viscosity: 180 - 7,000 cps

170 - 8,500 cps

160 - 11,200 cps

Hardness: ShoreA 88°

Adhesiveness to Aluminum: 1.6kg

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.