

**Vivion**<sup>TM</sup>  
cyclic block copolymers



New heat-resistant copolymer  
for electric vehicle advancement



# USI Corporation

USI Corporation, one of the largest polymeric material companies in Taiwan, was founded in 1965 and has a long history in producing and selling PE and EVA.

In 2018, the company launched the first-ever commercial production line for ViviOn™(CBC) in Kaohsiung, Taiwan.

## ViviOn™

### Cyclic Block Copolymers (CBCs)

ViviOn™ is a novel cyclic block copolymer (CBC), which is a fully hydrogenated polymer based on styrene and conjugated dienes via anionic polymerization. This advanced material has extra-high transparency and superb purity.



## **ViviOn™0645, a new high-heat resistant material, effectively improves the heat resistance of PP film capacitors.**

With the advancement of energy storage, there is a rising demand for high heat-resistant film capacitors to enhance their performance. In response, USI Corporation introduces a novel high heat-resistant material, ViviOn™0645.

ViviOn™0645 is renowned for its high purity and heat-resistant properties, which can effectively improve the heat resistance of polypropylene (PP) film capacitors.

By proper incorporation of ViviOn™0645 into the traditional PP, the film capacitor can be made to meet the increasing demand for high heat-resistant capacitors. This integration effectively improves the dimensional stability of the PP film capacitor, especially under high temperatures.





## Key material for electric vehicle advancement

ViviOn™0645's heat-resistant performance can elevate electrical performance of PP film capacitors, which can help to produce smaller and more energy-efficient electric vehicles.

### ViviOn™0645 features

- High purity polymer
- High heat-resistant performance ( $T_g \sim 146^\circ\text{C}$ )
- Low dielectric constant (Dk) and dielectric loss (Df)



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[www.usife.com](http://www.usife.com)

+886-2-8751-6888, ext: 6724

4<sup>th</sup> Floor, No.39, Jihu Road, Neihu District,  
Taipei 11492, Taiwan (R.O.C.)

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