

# MICROSPHERE

(thermally expandable microcapsule)

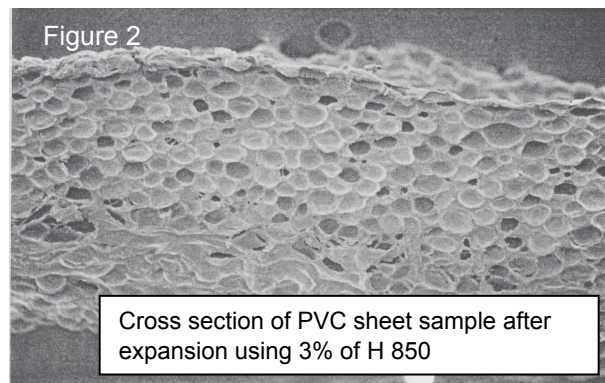
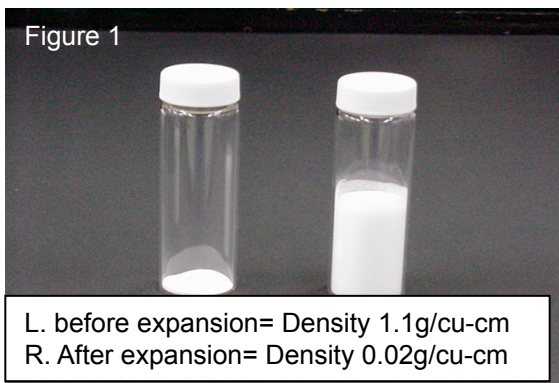
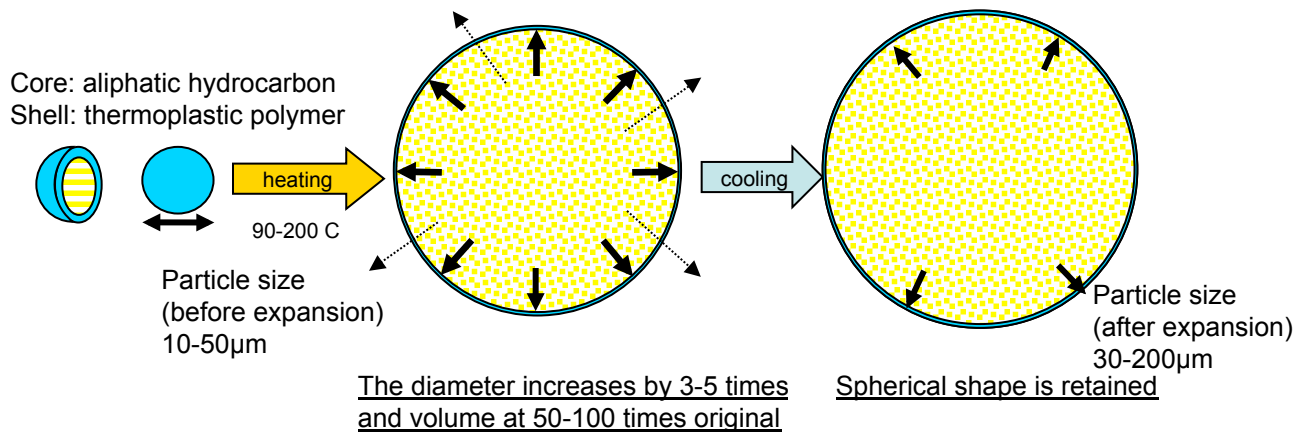
**KUREHA**

*Pursuit for Excellence*

## Features of KUREHA Microsphere

KUREHA Microsphere (MS) is a thermally expandable microcapsule. It consists of a polymer shell encapsulating a gas blowing agent (mainly aliphatic hydrocarbons). When heated, the gas in the shell expands increasing pressure while the thermoplastic shell softens, resulting in a dramatic increase in volume. Upon cooling a hollow and extremely light plastic sphere remains. Cell size increases by 3-5 times and the volume of the microcapsule increases by 50-100 times.

## Model of expansion mechanism



## Typical Applications

- ◇ Automotive headliners, undercoatings, sealants
- ◇ Light weight Paper & Sheet, Paints, Caulks
- ◇ Embossed / 3D Ink & Paint for Graphic arts
- ◇ Shoe soles, heat activated adhesives,

## Contact Information

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