



# Thermo-Sensitive Polymer Shows you the Difference of

1°C

## SENSITIVE

- Responds to any kind of change in temperature
- Color change begins at selected activation temperature at a precision of 1°C
- When temperature drops below the activation temperature, the liquid turns back to transparent

## VERSATILE

- Liquid based
- Allowing customization to specific applications

## UV & NIR BLOCKING

- Blocking the glare from the sun; Ideal for building materials

Growing tired of your stagnant product? Nano and Advanced Materials Institute Limited (NAMI) introduced our state-of-the-art Thermo-Sensitive Polymer to differentiate your products with additional aesthetic and functional properties.

NAMI's Thermo-Sensitive Polymer gives your product an ability to change to a milky color through any kind of change in ambient, body or water temperature, whatever the surface is touching. Color change will begin at selected activation temperature with high accuracy. Once the temperature drops below the activation temperature, the color will return to transparent.

### *Versatile for Customization*

The Thermo-Sensitive Polymer is in aqueous form and can be designed in any size, shape, or thickness of glass, plastic, or any transparent enclosures.

The application temperature range for the Polymer is 15°C to 35°C, in which the activation temperature can be set, depending on the needs of different applications.

### *Energy Efficiency*

NAMI's Thermo-Sensitive Polymer, at its milky state, allows light to filter through, reduces glare and the amount of incoming ultraviolet (UV) as well as near-infrared (NIR) light.

With its unique features of changing from transparent to milky state at a specific heat level, when integrated in building materials and blinds, the Polymer provides insulation to reduce heat gain in summer while enhancing daylighting in winter. While there are many energy-saving options in today's world, NAMI's multi-functional Thermo-Sensitive Polymer helps your product stand out from the crowd.

### BUILDING MATERIALS

Tiles, Blinds, Glass blocks,  
Glass vessels, Shower curtains,  
Architectural glass, Countertops,  
Tables, Floors, Ceilings, Walls,  
Roof files, Doors

### CONSUMER GOODS

Coasters, Hot plates, Serving  
trays, Placemats, Furniture

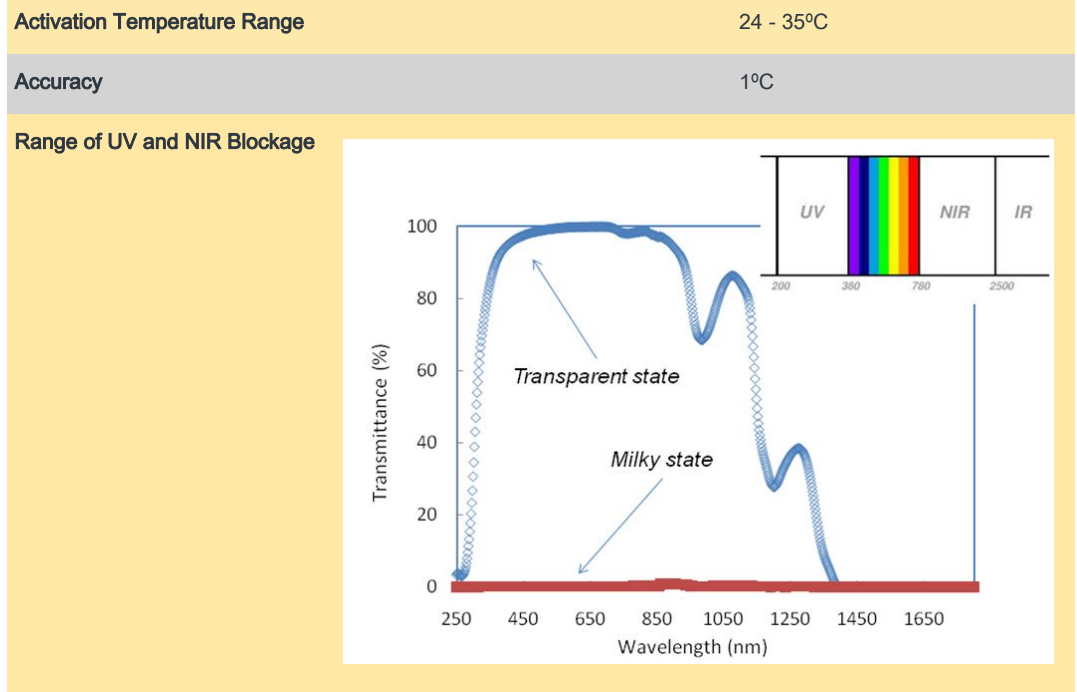
### LIFESTYLE GOODS

Picture frames, Candle holders,  
Dice, Children's books, Games  
and toys

### COMPONENTS

Vents, Buttons, Dash, Gear shift,  
Controls

## Specifications



## About NAMI

- Incorporated by the Innovation and Technology Commission of HKSAR Government, Nano and Advanced Materials Institute Ltd. (NAMI) is a not-for-profit company to undertake and fund industry-oriented research in nanotechnology and advanced materials.
- With a focus on market-driven applications, NAMI draws on the leading researchers from the academia (both locally and internationally) to serve the needs of a variety of markets ranging from consumer lifestyle products, new materials for the construction industry to technologies for solid state lighting and sustainable energy.
- Contact us to learn more about NAMI's dynamic process of academic-industry collaboration. Please visit [www.nami.org.hk](http://www.nami.org.hk) or write in to [bizdev@nami.org.hk](mailto:bizdev@nami.org.hk).

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