

SHANGHAI COLORS

NO.398,XINLV ROAD,SONGJIANG DISTRICT,SHANGHAI,CHINA

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Thermochromic pigment

Other names:

Temperature sensitive pigment, temperature changing material, thermochromic dye

Description

Our thermochromic pigment is developed by micro-encapsulation technology. It adopts temperature sensitive microcapsules to encapsulate dye and enable color change by temperature rising or falling in a certain range. It can be used repeatedly. It can change color quickly and the color could be fresh and vivid. It has good solvent resistance and dispersion. The color change could be reversible or irreversible.

Through shrinking and expanding of the microcapsules, it will change color by 3 ways:

- 1) It shows color by temperature rising and hides color by temperature falling.
- 2) It changes from one color to another.
- 3) It changes from colorful to colorless.

Characteristics

Particle size: 1 – 10um.

Base Temperature: 5°C, 10°C, 16°C, 31°C, 33°C, 43°C, 45°C, 50°C, 65°C.

The highest temperature resistance is about 200°C - 230°C (less than 10 minutes).

Base color

Golden		Grass green		Water blue	
Orange red		Golf green		Dark blue	
Vermilion		Dark green		Sea blue	
Red		Green		Sapphire	
Pink		Peacock green		Violet	
Rose red		Turkish blue		Purple blue	
Purple		Sky blue		Black	

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Tips

Storage: It is light fugitive. Sealed packaging and storing in cool & dry conditions are required. For ocean transportation, freezing container is preferred.

Application

Thermochromic Paint: Suitable for all kinds of plastic products, surface coating. Including ABS, PE, PP, PS, PVC, EVA and other plastic materials.

Thermochromic Ink: suitable for all types of printing, coated screen, gravure and letterpress print, can be printed on all kinds of materials, including textiles, paper, synthetic film, glass, ceramics and wood.

Thermochromic Plastic: high color concentration of the common grade masterbatch can be mixed with PE, PP, PS, PVC, EVA, PET, and Nylon for injection or extrusion process.

Other Applications: Can be used for yarn, fabric, leather, ceramic, decoration, etc.

Recommend dosage

Water-based ink or paint	Oil-based ink or paint	Plastic injection or extrusion
2% ~ 30% W/W	2% ~ 30% W/W	2% ~ 30% W/W



Leather



Ceramic

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沪彩化工
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Fabric



Plastics