



Reversible thermochromic colorant

## CHROMICOLOR MS Powder LF Grade

### Product Outline

CHROMICOLOR is a reversible thermochromic colorants. According to the purposes, CHROMICOLOR MS Powder LF Grade can be applied to solvent-based screen printing inks and gravure printing inks. Also, it can be used as a dry color to be mixed into molding resin for masterbatches.

### Property

	CHROMICOLOR MS Powder LF Grade
Appearance	Various Color Powder
Component	Microcapsulized Thermochromic colorant
Ave. Particle Size	2.0 ~ 4.0 $\mu$ m (FAST YELLOW = 3.0-5.0 $\mu$ m)
Density (g/cm <sup>3</sup> )	1.05 $\pm$ 0.05
Bulk density (g/cm <sup>3</sup> )	0.3 $\pm$ 0.05

### Considerations

- Keep sealed and store in dark place under 30°C.  
Shelf Life; 6 months.
- Avoid exposing to moisture. The powder absorbed moisture has poor dispersibility into oilbased inks.  
It is advisable to have pre-dry at 80°C x 3 hours before using.
- Solvents having high polarity, such as Methanol, Acetone, DMF, and also the mixture of water and organic-solvent should not be used as it shortens the potlife of the solution.
- Only compounding by a mixer can not well loosen its primary particles, which may causes erratic color hues. Please, use roller mill to disperse the powder well.
- CHROMICOLOR MS Powder LF Grade has weak coloring power, so its dosage is higher than regular pigment colors.
- When it discolors at 5°C+ higher than the set Temp., it memorize the Temp. and does not well come back to its colored state. (ghosting symptom) In such case, arrange intentional cool-down 5°C+ lower than the set Temp. to reset the coloring behavior. This ghosting symptom is more likely to happen with CHROMICOLOR Fast Blue.

### Color / Temp. Types

Available Colors; 11 colors



### Temperature Types

Type #5	Type #20
Type #10	Type #25
Type #15	Type #27
Type #17	Type #35
	Type #37

- CHROMICOLOR may lose its color by retort process; therefore, CHROMICOLOR is unsuitable to the packages and packing for retort.
- The product has weak light-fastness (not only Sunlight but any lights), so pre-test is a must to judge the suitability.
- The color strength may vary +/- 10% by lot to lot.
- The product contains 'formaldehyde' less than EU regulation level. This product is applicable to SNUR requirements. Please, carefully refer the SDS before use.

\*Carefully test to see the applicability before bulk use.



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