Permanent Thermochromic Change Pigments & Coatings

Product Data Sheet

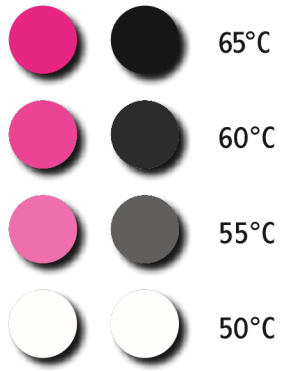
Color Change Background

Test prints of various LRCHallcrest Permanent Thermochromic Change Pigments & Coatings were heated for 3 minutes and measured for color density.

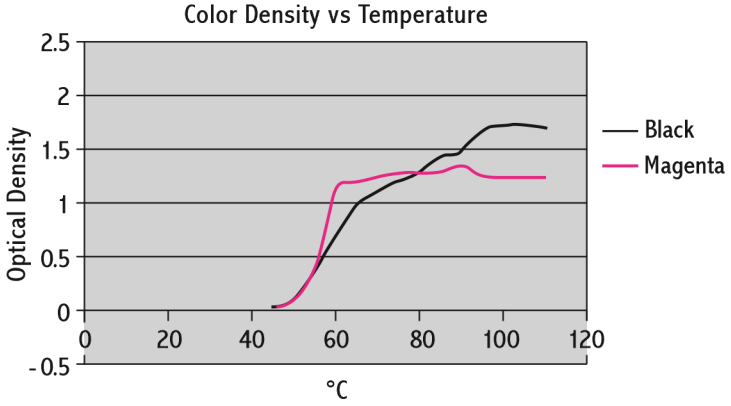
Magenta, closely followed by Black reached the strongest color point at 65°C of the colors measured. The color change for magenta and black is sharp.

NOTE: Magenta is best for lower temperature activation; at 55°C it shows good color.

As Temperature Increases Color Density Increases



Based on K60°C-NH-WB



This information is for illustration only; It has been developed under strict laboratory conditions. The user should test and verify that the ink works for their particular application.

CONCENTRATE

Primarily intended for use in the formulation of paints using water based resins or binders.

PIGMENT CONCENTRATES

Solids:	48% ± 2%
Pigment Concentration:	39% ± 2%
Particle Size:	95% < 15 µm
pH:	6-8 depending on range
Light Fastness:	1-3 (BWS) depending on color

INKS

Printing methods including Screen and Flexographic onto print receptive plastics and absorbent surfaces such as paper.

WATER BASED INKS

Solids:	44% ± 2%
Pigment Concentration	
Flexo:	26% ± 2%
Screen:	29% ± 2%
Particle Size:	95% < 15 µm
pH:	6-8 depending on range
Light Fastness:	1-3 (BWS) depending on color

Temperature Range

50 – 200°C

Storage

A shelf life of 1 year is guaranteed provided that the containers are not opened and are stored in an ambient temperature of 16 to 22°C with no exposure to UV (Sun) light. Concentrates may settle after standing and should be stirred well before use.

Safety Data Sheet Irreversible Thermochromic Ink NH SDS004 Rev4 available upon request

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