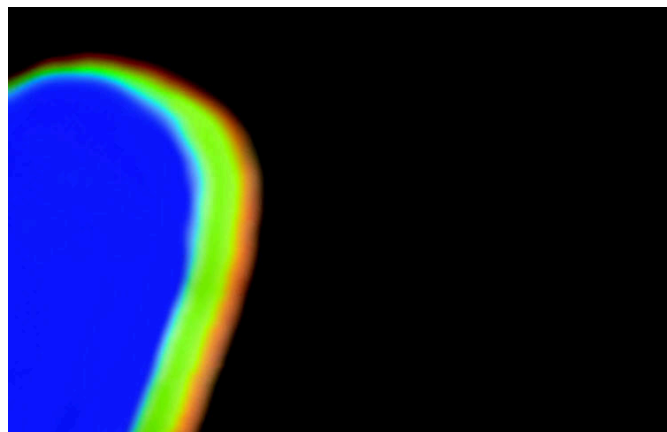


Liquid Crystal Substrates – Overview

Ready to Use Vinyl Material Coated with Liquid Crystal

This is a finished material that can be cut to size and used to create a touch sensitive color changing graphic.



Product Highlights

- Vinyl Based Flexible Black Material with an Adhesive Back
- Black changes to the visible spectrum of color when touched
- Touch temperature sensitive color change 77° - 86°F (25° - 30°C)
- Glossy finish
- Available in 50" master roll slit to size or sheeted

Color Plays

Red Start (RS) (Black to red)	Green Start (GS)	Blue Start (BS) (Blue to Black)	Clearing Point (CP) (Back to Black)	Bandwidth (Blue start minus red start)
25 °C	26 °C	30 °C	34 °C	5 °C

Specifications

Construction	Vinyl film with polyester over laminate, adhesive backed with protective backing.
Total Thickness	With adhesive: 175-225 microns
Supplied	Rolls or sheets
Color Change	Black to the visible spectrum (red, green, blue) with increasing temperature, and finally to black again.
Tolerance	Start of color change temperatures $\pm 2^{\circ}\text{C}$; bandwidth of color change temperatures $\pm 2^{\circ}\text{C}$.
Storage	Unused sheets should be stored out of direct sunlight at room temperature (20°-25°C/68°-77°F), and preferably in a solvent-free environment. Sheets in position on test surfaces should be protected from UV light and organic solvents wherever possible. The color play properties of the sheets should be checked out at regular intervals to ensure that they have not changed. 12-month shelf life if the sheets are stored correctly.

Custom Applications Encouraged!