

# DigiTemp - Liquid Crystal Sheets

## Ready to Use Polyester Sheets Coated with Liquid Crystal

### Color Change

As temperature increases, the color of the sheets changes from black to red, red to green, green to blue, and finally to black again. Material is finished and cut to 12" x 12" size.

### Features

- Polyester Based Black Sheets With or Without an Adhesive Back
- Black Changes to the Visible Spectrum of Color When Heated
- Temperature Sensitive Color Change 68°F - 135°F (20°C - 57°C)

### Specifications

Size:	12" x 12"
Substrate:	5 mil clear polyester
Coating:	Silkscreen application of microencapsulated TLC coating Silkscreen application of black backing ink
Backing:	Optional pressure sensitive adhesive with release liner
Properties:	The color change properties of the TLC coating (Red, Green, Blue)

### Applications:

- Promotional products and ad specialties
- Instructional and educational usage
- General non-destructive testing (NDT) and thermal mapping
- Research (engineering, aerospace)



Range	Red Start		Green Start		Blue Start		Blue to Black		Bandwidth	
	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
R20C5B	20	68	21	70	25	77	41	106	5	9
R25C5B	25	77	26	79	30	86	44	111	5	9
R29C4B	29	84	30	86	33	91	50	122	4	7
R30C5B	30	86	31	88	35	95	46	115	5	9
R35C1B	35	95	35.2	95.5	36	97	49	120	1	2
R35C5B	35	95	36	97	40	104	49	120	5	9
R40C5B	40	104	41	106	45	113	52	126	5	9
R45C5B	45	113	46	115	50	122	57	135	5	9

Red start and green start temperatures quoted in chart are  $\pm 1^\circ\text{C}$  ( $\pm 2.0^\circ\text{F}$ )

Blue start, blue to black and bandwidth temperatures are  $\pm 2^\circ\text{C}$  ( $\pm 4.0^\circ\text{F}$ )