

Supplementary Materials for **Sequential self-folding of polymer sheets**

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The PDF file includes:

- fig. S1. Optical absorption spectra of color inks printed on a plain prestrained polymer sheet.
- fig. S2. Thickness of hinges printed with different colors using an HP Color LaserJet CP3525dn printer on Grafix polymer sheets.
- table S1. Measured power density for different LEDs used for the folding test.
- table S2. CMYK codes for different colors.
- Legends for videos S1 and S2

Other Supplementary Material for this manuscript includes the following:

(available at advances.sciencemag.org/cgi/content/full/3/2/e1602417/DC1)

- video S1 (.mp4 format). Sequential self-folding of three star-shaped templates placed on top of each other using a blue LED.
- video S2 (.mp4 format). Sequential self-folding of a template featuring double hinges with different colors on the three panels to fold up to 180°.

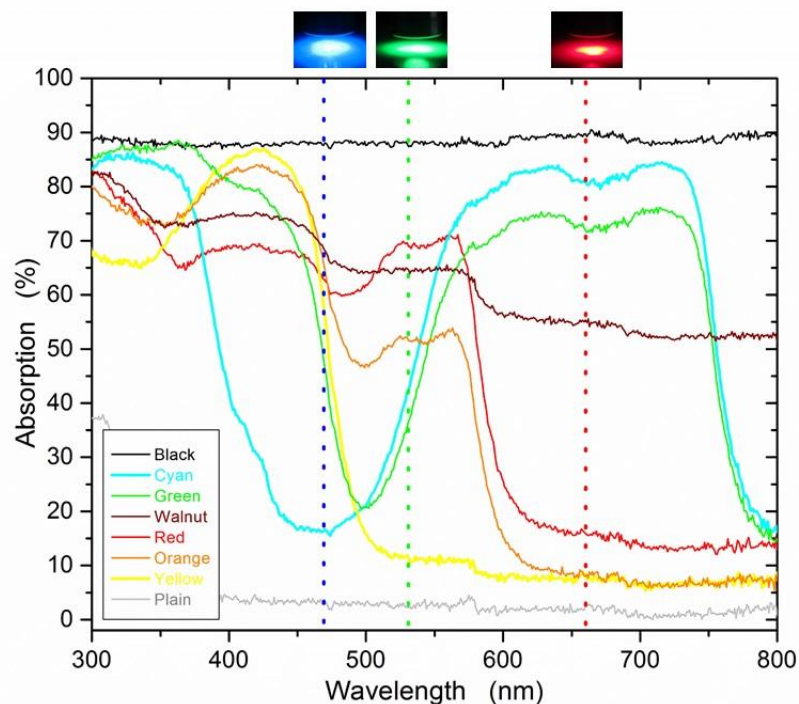


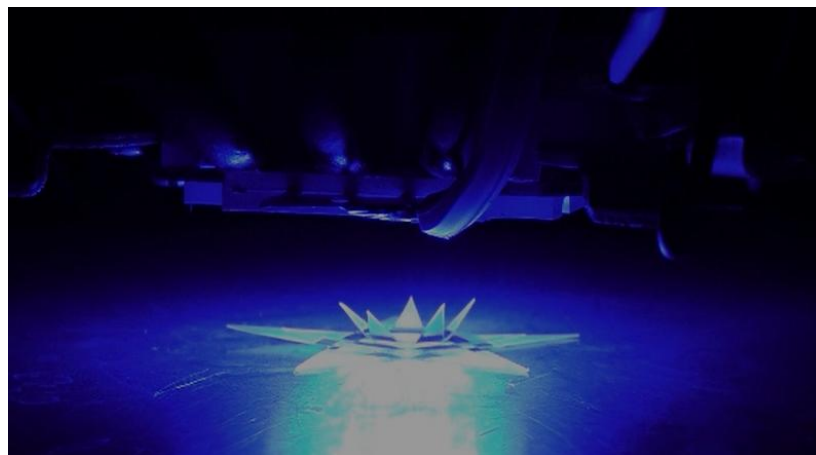
fig. S1. Optical absorption spectra of color inks printed on a plain prestrained polymer sheet. The dashed vertical lines represent the typical wavelengths for blue (470 nm), green (530 nm) and red (660 nm) LEDs.

table S1. Measured power density for different LEDs used for the folding test.

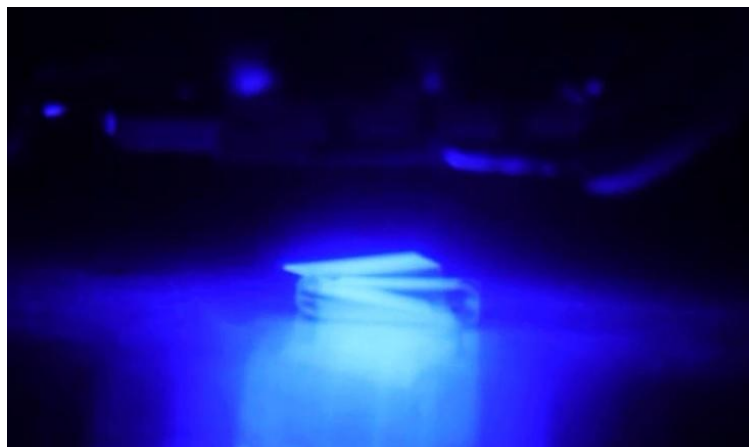
Color	Wavelength (μm)	Nominal power of LED (W)	Distance to sample (cm)	Power density (mW/cm ²)
Red	660	15	1.0	580
			1.5	519
			3.0	362
Green	530	15	1.0	318
			1.5	285
			3.0	181
Blue	470	15	1.0	727
			1.5	636
			3.0	373
Red	630	50	1.0	916
			1.5	602
			2.0	513
Blue	470	50	3.0	261
			1.0	1541
			1.5	1238
Blue	470	50	2.0	743
			3.0	421

table S2. CMYK codes for different colors.

Color	C	M	Y	K
Black	0	0	0	100
Yellow	0	0	100	0
Walnut	0	20	40	60
Orange	0	60	100	0
Red	0	100	100	0
Magenta	0	100	0	0
Green	100	0	100	0
Cyan	100	0	0	0
Blue	100	100	0	0



video S1. Sequential self-folding of three star-shaped templates placed on top of each other using a blue LED. The video plays at 2X speed. See video in the Supporting Information.



video S2. Sequential self-folding of a template featuring double hinges with different colors on the three panels to fold up to 180°. The video plays at 4X speed. See video in the Supporting Information.

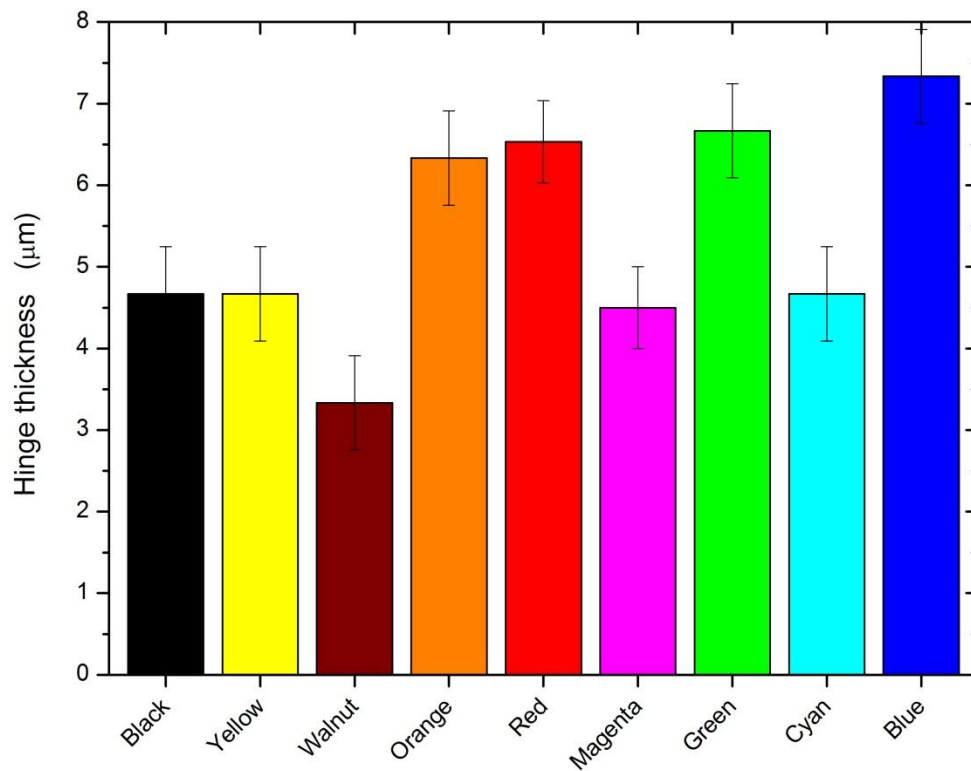


fig. S2. Thickness of hinges printed with different colors using an HP Color LaserJet CP3525dn printer on Grafix polymer sheets. The error bars correspond to the standard deviation obtained from three measurements on the same sample.