

INSTRUCTION GUIDE: VynEL™ CUSTOM DIY LIGHT UP GARMENT

VynEL™ panels allow lighting integration in numerous textiles and fabrics. The VynEL™ product line can heat bond easily to many textiles, and can also be sewn in using standard equipment like heat presses and irons. This guide will show how VynEL™ panels can be integrated into various materials, easily, using a standard iron. This process is the same for all types of VynEL™ Flow panels, and some types of VynEL™ HD Panels with a heat bonding adhesive applied to the backside. Creating light up garments has never been easier (or more fun), so let's get ready to create some glow!

HEAT BONDING METHOD

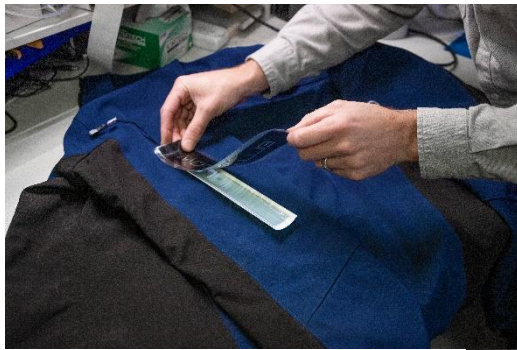
There are a few parts to each VynEL™ system; the light panel, graphic overlay, connection area and battery pack. In this guide, all you need is an iron to follow along, but if you have a heat press, it will make a little easier work. In this guide however, we will use a standard iron.

Step 1: Find a garment or fabric you want to add light to. An old jacket or sweatshirt might be a great way to test.

Step 2: Get some heat bonding (or heat transfer vinyl) material and cut out in the shape you need. Having a plotter or vinyl cutter makes for quick (and neat) work! If you don't have one, you can carefully use an Exacto knife. Tracing over a piece of paper can yield surprisingly good results!

Step 3: Cut away the material you want to light up. You may find using small tweezers are a good way to remove this material.

Step 4: Lay the VynEL™ Panel, and graphic over the area you plan to bond to. Make sure you have a flat surface with all wrinkles removed for best results.



Step 5: Warm up your iron on dry, cotton setting. Using your iron with about 30lbs of pressure, press down on your garment, moving evenly and smoothly across the surface for about 15-25 seconds.

IF USING A HEAT PRESS: Place garment in heat press, keeping the lighting element farthest away from heating element. Use 30-40lbs of pressure, @ 300°F for 15-20 seconds is recommended.



Step 6: Let garment cool for about 1-2 minutes. If you can move your garment without bending or manipulating too much, put it flat in your freezer for about 1-2 minutes for best results. Once cool, gently peel off the top coating, and plug into your battery pack.

Turn on and get ready to glow!



STORING

NOTE: When storing the product, make sure to keep the minimum bending radius of the product >5mm to avoid shorting and dark spots from appearing on the lit surface. This generally means store on a hanger or lay light flat.

For custom applications or producing custom VynEL™ panels in volume, please contact us for more details.

WIRING DIAGRAM:

BATTERY OPERATION



FAQ

- What is VynEL™?
VynEL™ derives from EL Panels, but has additional properties which provide a multitude of uses. VynEL™ is extremely flexible, heat bondable and can even be laundered on cool settings and hang dry. This makes it ideal for many safety and entertainment uses.
- Does VynEL™ Need An Inverter?
Yes. At its core, VynEL™ Lighting is still an Electroluminescent product, and it needs a high frequency to make it work. The way we've designed the materials, allows VynEL™ to be powered from Parallel EL Inverters.
- Can VynEL™ Be Cut?
Yes, VynEL™ can be cut, however we recommend NOT cutting VynEL™ panels for best and longest lasting results. Rather than cutting, we recommend making custom shapes and sizes at the manufacturing level.
- Can VynEL™ Panels Be Customized?
Yes, VynEL™ Panels can be customized to nearly any shape size or color, including graphical overlays. Please visit <http://VynEL.tech> for more information on the complete VynEL™ product line. Please contact us directly for any custom inquiries.