



## SA-114

### UV Curable Free Radical Adhesive for Polylactic Acid-to-Polylactic Acid (PLA) Bonding

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#### Description

**SA-114** is a clear UV curable free radical adhesive designed for rapid online bonding and eventual structural adhesion of PLA (polylactic acid) substrates.

#### Features

100% solids, no VOC  
Customizable viscosity, making possible various online style applications  
Fast initial online bonding when exposed to UV light from various UVB-UVA light sources  
Tack-free superior destructive bonding. The substrate will deform upon separation of the laminate.  
Good bond clarity  
Room temperature cure, no post-cure necessary  
No embrittlement or color change with time

#### Uncured Adhesive Properties

Color	Transparent
Viscosity @ 40°C	200 - 1200 cPs. Viscosity can be adjusted for a specific online application method.
Density (g/ml)	1.11
Shelf life	12 months @ 25°C
Flash point	>100°C (>212F)

This material will normally be shipped at ambient conditions with proper labeling; the recommendation is to place the material into its intended storage upon receipt to secure shelf life. The product is **Light Sensitive!**

#### Handling

**Mixing** – one component – requires no mixing

## **Application**

**Applying** – Bonding surfaces should be clean, dry, and properly prepared. Coat 0.3-0.5 mil wet, laminate at room temperature. Anilox gravure printing, flexo, roll or curtain coating are acceptable application methods.

**Curing** – metal halide, various doped mercury vapor bulbs, Xe gas filled bulbs. The speed of cure to tack free or fully cured state depends on the UV intensity emitted by the source and the distance between the source and the substrate.

## **Physical Performance of Fully Cured Adhesive**

**Adhesion Poly(lactic Acid)-to-Poly(lactic Acid)**

Destructive Bonding

### **Handling Precautions**

Do not handle or use until the Material Safety Data Sheet has been read and Understood. For industrial use only.

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**CAUTION!** This material may cause eye and skin irritation or allergic dermatitis. Use this product with adequate ventilation!! Do not get in eyes or on skin. Avoid breathing the vapors. Wash thoroughly with soap and water after handling. Empty containers retain product residue and vapors so obey all precautions when handling empty containers.