



## SA-111

### UV Curable Cationic Adhesive for Polypropylene-to-Polypropylene Bonding

Spectra Group Limited, Inc.  
27800 Lemoyne Rd., Suite J  
Millbury, OH 43447  
USA  
Telephone (419) 837-9783  
Fax (419) 837-6816  
[www.sglinc.com](http://www.sglinc.com)

#### Description

**SA-111** is a clear UV curable cationic adhesive designed for rapid online bonding and eventual strong adhesion of polypropylene substrates. (For polypropylene to paper adhesive, see **SA-112**)

#### Features

100% solids, no VOC  
Customizable viscosity, making it possible for a variety of online application methods  
Fast initial online bonding when exposed to UV light from various UVB-UVA light sources  
Tack-free superior destructive bonding. 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, colorless to slightly yellow liquid
Viscosity @ 40°C	400 – 700 cPs. Viscosity can be adjusted for a specific online application method.
Density (g/ml)	1.12
Shelf life	12 months @ 25°C
Flash point	52°C (126F)

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. Polypropylene surfaces should be prepared using corona treatment. In-line corona treatment may further boost adhesion on commercial corona treated substrates. Coat 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 Polypropylene-to-Polypropylene (corona treated)**

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.