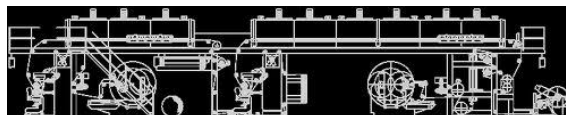


# SC1011A Polymer



## Description

SC1011A Polymer is a component of the KCC 1000 Series of solventless silicone release coating materials, which includes polymer, controlled release additive, crosslinker & catalyst components.

SC1011A Polymer is a mixture of a vinyl-functional siloxane polymer & an acetylenic alcohol inhibitor.

Typical Characteristics	
Appearance	Clear, low viscosity liquid
Colour	Colourless
Active Content	100%
Viscosity	200cp
Shelf Life (30°C)	12 months

Coatings formulated with the SC1011A Polymer are suitable for use on wide range of paper substrates, including polyethylene coated Kraft & unsupported temperature sensitive films. The resulting liners are well matched to a wide range of self-adhesive tape & label applications.

Features	Benefits
1. Low viscosity product	1. Suitable for high speed coating
2. Acetylenic alcohol inhibitor	2. Low temperature cure
3. Low volatile content siloxane polymer	3. Reduced fouling of ovens
4. Terminal-functional siloxane polymer	4. Smooth easy adhesive release

## Food Contact

Coatings complying with the indirect & direct food contact coating regulations of many countries may be prepared with the SC1011A Polymer. Please contact KCC for additional information.

## Packaging

SC1011A Polymer is available in 18kg, 180kg & 950kg packaging.

## Mix Preparation

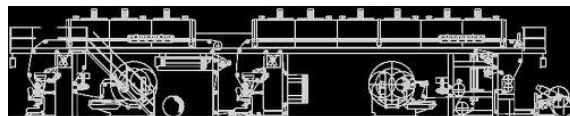
Prior to mix preparation the user should consult the individual product safety data sheets to ensure that all materials are handled in a safe manner consistent with local requirements.

Coating mixes are simply prepared by combining the SC1011A Polymer with a crosslinker & a catalyst to give a premium release coating. When a modified release coating is required, a controlled release additive should also be included. The KCC 1000 Series provides users with a choice of controlled release additive & crosslinker components for compounding with the SC1011A Polymer.

Batch or continuous mixing techniques may be employed to prepare the reactive coating system, however it is recommended that the polymer, controlled release additive & crosslinker components are first mixed together to give a homogeneous composition, to which the catalyst is added with continued mixing.

The resulting mixes may be applied by off-set gravure or smooth multi-roll coating techniques.

# SC1011A Polymer



## Mix Composition

A key chemical parameter of the mix is the stoichiometric ratio of silicon-vinyl (SiVi) to silicon-hydride (SiH). The relative quantities of polymer & crosslinker required to achieve a range of stoichiometries are described in tables 1.

**Table 1:** :SC1011A Polymer & SC0016B Crosslinker

SiH/SiVi	SC1011A (Parts)	SC0016B (Parts)
1.50	100	2.42
1.75	100	2.82
2.00	100	3.22
2.25	100	3.62
2.50	100	4.03
2.75	100	4.43
3.00	100	4.83

## Warranty

The information included in this technical data sheet is offered in good faith and is believed to be accurate. However, since the use of the product is beyond KCC's control, the user should ensure that it is used in a safe & effective manner respecting the intellectual property of other parties.