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# Joncryl® HSL 9012-A

***Product Description***

**Joncryl HSL 9012-A is an acrylic copolymer emulsion for use in water-based heat seal lacquers for pharmaceutical blister lidding foil sealed against PVC, PVDC-coated PVC and PET.**

***Key Features & Benefits***

***- Good adhesion to hard and soft tempered aluminum foils***
***- Low odor***
***- Low activation temperature***

***Chemical Composition***

**Acrylic copolymer emulsion**

## Properties

***Typical Properties***

| | | |
|---|---|---|
| Appearance | | translucent emulsion |
| Molecular weight (Mw) | | > 200,000 |
| Non-volatile | % | 39 |
| Acid value | mg KOH/g | 35 |
| pH | | 8.8 |
| Density at 25°C | g/cm³ | 1.04 |
| Tg | °C | <5 |

These typical values should not be interpreted as specifications.

## Application

Joncryl HSL 9012-A has specifically been developed for heat seal lacquers on push-through lidding foil for pharmaceutical blisters. Heat seal lacquers based on Joncryl HSL 9012-A are suitable for hard- and soft-tempered aluminum push-through foils in all standard gauges, sealed against PVC, PVDC-coated PVC and PET.

Compared to solvent-based heat seal lacquers, Joncryl HSL 9012-A:

- Is cost effective
- Leaves no retained solvent
- Delivers comparable blister integrity

***Formulation Guidelines***

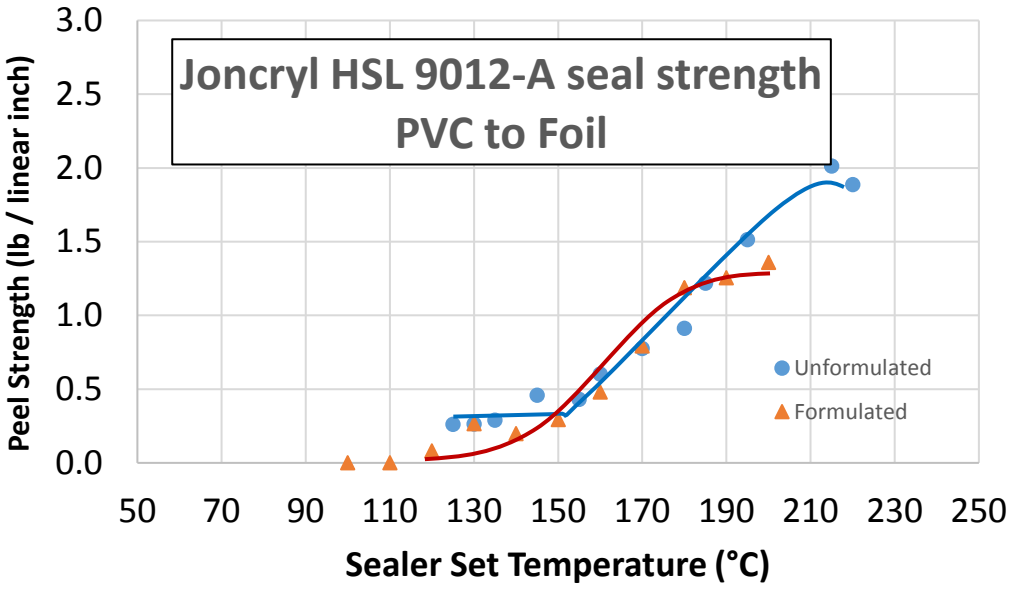
Joncryl HSL 9012-A should be blended with a defoamer and wax (dry or emulsified) for press stability and scratch resistance. It is also possible to blend in resin solution and/or fillers such as talc to optimize application properties and block resistance.

***Starting Point Formulation***

| | |
|---|---|
| 93-94 parts | Joncryl HSL 9012-A |
| 3-5 parts | talcum |
| 1-2 parts | Joncryl Wax 28 |
| 0.5 parts | Foamaster® MO 2111 |

***Application Guidelines***

Heat seal lacquers based on Joncryl HSL 9012-A can be applied on standard converting machines. Dilute with water to required application viscosity. Recommended coating weight: 4-6 g/m$^2$, drying temperature: 100-180°C.




The plot above shows the bond strength at various sealing temperatures. The Joncryl HSL 9012-A was applied neat and as part of the starting point formula below, with a wire wound bar, to 2.5 micron O-temper aluminum foil. The foil was sealed to 1mm PVC sheet at 1 bar/14.5 psi for 1 second. Results will vary with substrate thickness, seal pressure and seal time.

## Safety

***General***

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

***Safety Data Sheet***

All safety information is provided in the Safety Data Sheet for Joncryl HSL 9012-A.

## Storage

Please refer to the “Handling and Storage of Polymer Dispersions” brochure.

## Important

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