Joncryl® HSL 9010-A

Product Description

Joncryl HSL 9010-A is an acrylic copolymer emulsion for use in water-based heat seal lacquers for cardboard blister packs and flexible packaging.

Key Features & Benefits

- Easy to formulate
- Low sealing temperature
- Good block resistance

Chemical Composition

Acrylic copolymer emulsion

Properties

Typical Properties

Appearance		translucent emulsion
Molecular weight (Mw)		> 200,000
Non-volatile	%	45
Acid value	mg KOH/g	60
pH		7.3
Viscosity at 25°C	cP	70
Density at 25°C	g/cm³	1.03
Tg	°C	-10

These typical values should not be interpreted as specifications.

Application

Joncryl HSL 9010-A is an acrylic copolymer that offers good bond strength at low sealing temperatures, suitable for producing cardboard blister packs. Due to the low activation temperature, it allows shorter dwell times on the sealing equipment, which can result in improving the throughput of blister packaging lines of 20-50%.

Joncryl HSL 9010-A is recommended for applications such as:

- Heat seal lacquers for cardboard blister packs
- Heat seal lacquers for cardboard boxes
- Heat seal lacquers for strip-off foil on pharmaceutical blister packs
- Heat seal lacquers for PET lidding/tray combinations

Formulation Guidelines

Joncryl HSL 9010-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.

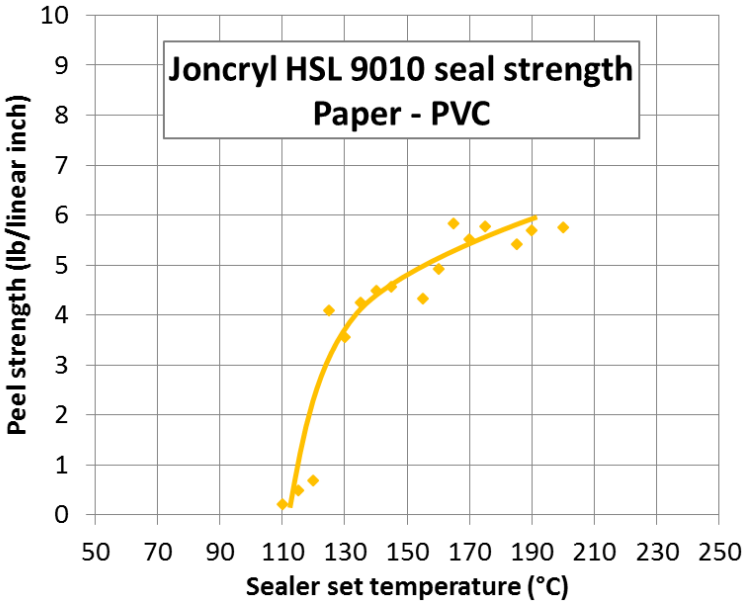
Starting Point Formulations

For application at the coating station of a sheet-fed offset press:

70.0 parts	Joncryl HSL 9010-A	
17.0 parts	Joncryl 50	50% solids solution of Joncryl 682
3.0 parts	Hydropalat® WE 3475	Surface wetting agent
10.0 parts	water	

For application by flexo, gravure or bar coating:

94.5 parts	Joncryl HSL 9010-A	
5.0 parts	Joncryl Wax 28	34% solids PE wax emulsion
0.5 parts	Foamaster® MO 2111 NC	Defoamer
As necessary	water	Viscosity optimized for application method



The plot above shows the bond strength at various sealing temperatures. The Joncryl HSL 9010-A was applied neat, with a wire wound bar, to 18 pt SBS paper stock and 1mm PVC sheet. The coated surfaces are sealed together 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 9010-A.

Storage

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

Important

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