

Joncryl[®] 646

Product Description	Joncryl 646 is a high molecular weight, acrylic colloidal emulsion for corrugated ink applications.
Key Features & Benefits	- <i>Cost-effective letdown vehicle</i> - <i>Effective thickening agent</i>
Chemical Composition	Styrene acrylic colloidal emulsion

Properties

Typical Properties	Appearance		opaque emulsion
	Non-volatile	%	40.0
	pH at 25°C		6.0
	Acid number (NV)		128
	Molecular weight (Mw)		100,000
	Viscosity at 25°C	cps	45
	Density at 25°C	g/cm ³	1.07
	MFFT	°C	< 7
	Tg	°C	30
	Freeze-thaw stable		No
	Total VOC	% wt	< 0.005

These typical values should not be interpreted as specifications.

Application

Joncryl 646 is a high molecular weight, colloidal emulsion designed to minimize the cost of inks for corrugated board. The balance between the molecular weight and the composition of this emulsion results in the ability to maintain viscosity of corrugated inks with a minimal amount of polymer.

Joncryl 646 performs as a very efficient letdown vehicle by allowing the formulator to maximize the percentage of water in the ink, while maintaining viscosity and printing properties.

Joncryl 646 is recommended for applications such as:

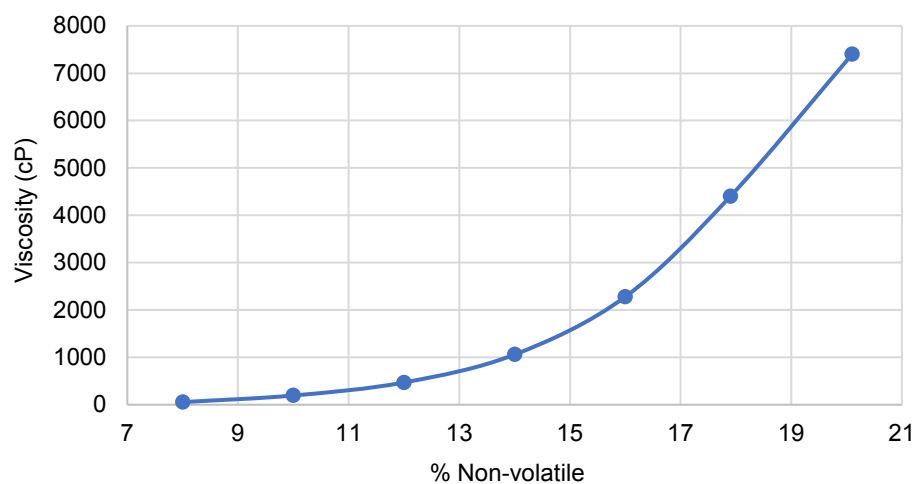
- Printing inks for flexographic or gravure applications

Processing

Since Joncryl 646 is supplied in the acidic form, it must be neutralized with ammonium hydroxide or organic amines and diluted before subsequent use in ink formulations.

Because of its high viscosity when neutralized, the formulation of varnishes at 10% polymer solids is recommended. It is also recommended to at least partially dilute before neutralizing.

Joncryl 646, Viscosity vs. % NV @ pH 8.5



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 646.

Storage

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

Important

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