We create chemistry

JONCRYL® FLX 5060

Product Description

JONCRYL FLX 5060 is a self-crosslinking styrene acrylic emulsion with excellent resistance for surface print applications on film and foil.

Key Features & Benefits

- Best in class chemical resistance properties
- Excellent resistance against acetone, alcohols and other solvents
- Excellent dry and wet rub resistance
- Improved resolubility and printability
- Good heat-seal resistance
- Good block resistance
- Very good grease resistance
- Adhesion to multiple film substrates incl. BOPP, PE etc.
- Swiss List compliant

Chemical Composition

Self-crosslinking styrene acrylic emulsion

Properties

Typical Properties

Appearance		Milky white emulsion
Non-volatile at 145°C (2g, 60 minutes)	%	43.0
pH at 25°C		9.3
Viscosity at 25°C (Brookfield #2LV, 60rpm, 30 seconds)	cps	150
Acid value (on solids)		14
Density at 25°C	g/cm^3 (lbs/gal)	1.04 (8.70)
MFFT	°C	< 5
Freeze-thaw stable		No

* These typical values should not be interpreted as specifications.

Application

JONCRYL FLX 5060 optimizes the self-crosslinking mechanism to boost resistance properties beyond typical styrene acrylic and self-crosslinking styrene acrylics. Oftentimes, crosslinkers are added to styrene acrylic based inks press side to boost resistance properties. However, these crosslinkers are toxic, expensive and lead to ink waste due to limited pot life. Boosting ink resistance via the binder in the ink is preferred. JONCRYL FLX 5060 can lower or eliminate altogether the need for additional crosslinkers depending on the requirements of the specific surface print application.

JONCRYL FLX 5060 provides best in class resistance to a broad range of chemicals such as ethanol, Lujob, IPA, baby oil, 409 etc. It also has improved resolubility compared to traditional styrene acrylics and excellent wet crinkle resistance.

Typical surface print applications include labels, outdoor bags, frozen food packaging or any other surface print application requiring high resistance and gloss.

JONCRYL FLX 5060 is Swiss List compliant. Contact BASF's product regulatory group for further information.

Ink Formulation Starting Point Formulation

The following starting point formulation is recommended for initial evaluations. Additional optimization may be required to achieve desired results for specific applications.

Below starting point formulation incorporates resin base pigment dispersion.

Zahn EZ #3 Viscosity for below formulation is 17.5

	%
JONCRYL HPD Pigment Dispersion	40.0
JONCRYL FLX 5060	54.9
JONCRYL Wax 30	4.0
FOAMSTAR® SI 2280	0.1
HYDROPALAT® WE 3650	1.0
Total	100.0

Hydropalat® SL 3683 can be used in place of, or together with Hydropalat WE 3650, if improved slip and water resistance properties are desired.

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 FLX 5060.

Storage

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

Important

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