

# Joncryl® FLX 5220

**Product Description** 

Joncryl FLX 5220 is a polyurethane-acrylic hybrid dispersion for use in lamination inks for medium to high duty film applications, including retort packaging.

Key Features & Benefits

- Excellent lamination bond strength on a broad range of substrates
- Very good printability and resolubility
- Good compatibility with pigment concentrates and letdown varnishes
- Swiss List compliant\* for food packaging

**Chemical Composition** 

Polyurethane-acrylic hybrid dispersion

## **Properties**

#### **Typical Properties**

Appearance Molecular weight (Mw) Non-volatile pH	%	translucent emulsion > 200,000 43 8.0
Viscosity at 25°C		
(Brookfield #3 LVF, 30 rpm)	cps	200
Density at 25°C	g/cm³	1.05
MFFT	°C	< 5
Freeze-thaw stable		No
Total VOC	% wt	0.2

These typical values should not be interpreted as specifications.

# **Application**

Joncryl FLX 5220 is specially designed for use in water-based lamination inks for medium to high duty applications, including retort packaging. An ink formulation based on Joncryl FLX 5220, printed on BOPP or PET but also to OPA and subsequently laminated to LDPE, provides lamination structures with high lamination bond strengths. These structures are very suitable to be used for food, snacks, candy packaging, deepfreeze, coffee, and fatty products like cheese and cold cuts packaging.

Inks based on Joncryl FLX 5220 have very good printability, which shows itself in a very nice lay on different substrates. The pigment paste compatibility of Joncryl FLX 5220 is very good, making it a versatile vehicle that can be incorporated into many ink formulations.

Joncryl FLX 5220 is recommended for applications such as:

- Printing inks for flexographic or gravure applications
- \* All components of Joncryl FLX 5220 are listed on Swiss List Annex 6, List A and B. Contact the BASF product regulatory group for further information.

#### Formulation Guidelines

Joncryl FLX 5220 can be used in conjunction with resin or surfactant based commercially available pigment dispersions and is compatible with standard ink-making materials.

## Starting Point Formulation

The following starting point formulations are recommended for initial evaluations of Joncryl FLX 5220. Additional optimization of the formulations may be required to achieve desired results for specific applications.

#### Blue Ink

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61.5	parts	Joncryl® FLX 5220
35.0	parts	pigment concentrate PB 15:3
0.5	parts	FoamStar® SI 2213
3.0	parts	IPA
100.0	parts	Total

#### White Ink

56.5	parts	Joncryl® FLX 5220
40.0	parts	pigment concentrate PW 6
0.5	parts	FoamStar® SI 2213
3.0	parts	n-propanol
100.0	parts	Total

# **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 5220.

# **Storage**

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

## **Important**

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BASF Corporation
Dispersions and Resins
11501 Steele Creek Road
Charlotte, North Carolina 28273
Phone: (800) 251 – 0612

Email: CustCare-Charlotte@basf.com

Email: edtech-info@basf.com www.basf.us/dpsolutions