# Printing & Packaging

Technical Data Sheet

# Joncryl® 1680

BASF
The Chemical Company

***Product Description***

**Joncryl® 1680 is matte, non-film forming, Rheology Controlled (RC) acrylic emulsion for printing ink and overprint varnish applications.**

***Key Features & Benefits***

***- Matte finish***
***- Rub resistance***
***- Block resistance***

***Chemical Composition***

**RC acrylic emulsion**

## Properties

***Product Specifications***

| | |
|---|---|
| Appearance | opaque emulsion |
| Non-volatile at 145°C (2g, 60 min) | 44.0 – 46.5% |
| pH at 25°C | 7.0 – 7.8 |
| Viscosity at 25°C (#2 LV, 30 rpm, 30 sec) | 200 – 600 cps |

***Typical Characteristics***

| | |
|---|---|
| Appearance | opaque emulsion |
| Molecular weight (Mw) | > 200,000 |
| Non-volatile | 45.0% |
| pH | 7.5 |
| Acid number (NV) | 29 |
| Viscosity at 25°C (Brookfield #2 LVF spindle, 30 rpm) | 385 cps |
| Density at 25°C | 1.03 g/cm³ |
| MFFT | 42°C |
| Tg | 56°C |
| Freeze-thaw stable | No |
| Total VOC | 0.1% wt |

These typical values should not be interpreted as specifications.

## Applications

Joncryl® 1680 is a controlled particle size, RC acrylic emulsion designed to give a matte finish to overprint varnishes or inks. Its low gloss and matting characteristics allow for the reduction or elimination of silica or clay matting agents.

Joncryl® 1680 is recommended for applications such as:

- Printing inks for flexographic or gravure applications
- Overprint varnishes for commercial, publication, or packaging applications

***Processing***

Some settling may occur during storage; mix well before using.

## 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.

***Material Safety Data Sheet*** All safety information is provided in the Material Safety Data Sheet for Joncryl® 1680.

## Important

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