We create chemistry

# Joncryl® ECO 684

***Product Description*** **Joncryl ECO 684 is a low molecular weight, glycol ether-free* resin for overprint varnish and liquid ink applications.**

***Key Features & Benefits*** ***- Low VOC and HAPS free***
***- Promotes very high gloss***

***Chemical Composition*** **Styrene acrylic resin**

**The glycol ether level in this product averages less than 0.002 weight percent.*

## Properties

***Typical Properties***

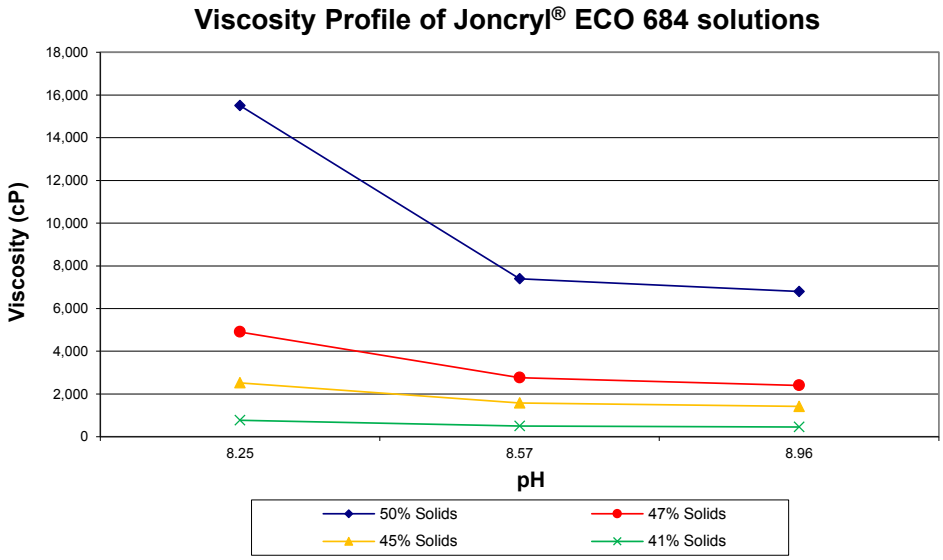
| | | |
|---|---|---|
| Appearance | | slightly yellow flakes |
| Molecular weight | | 1,850 |
| Acid number (NV) | | 243 |
| Non-volatile | % | 99.5 |
| Density at 25°C | g/cm$^3$ | 1.16 |
| Softening point (ring and ball) | °C | 122 |
| Tg | °C | 88 |
| Total VOC | % wt | 0.5 |

These typical values should not be interpreted as specifications.

## Application

Joncryl ECO 684 is a low molecular weight, glycol ether-free acrylic resin that allows the formulation of high solids overprint varnishes with excellent gloss and holdout. High solids, low viscosity solutions of Joncryl ECO 684 are possible due to its low molecular weight.

Joncryl ECO 684 is recommended for applications such as:
- Overprint varnishes for packaging applications




Joncryl ECO polymers allow the formulator to develop ultra-low VOC, glycol ether-free products to meet industry standards. These polymers provide an 80% reduction in VOC compared to conventional water-based polymers. They are ideal for demanding packaging applications like the confectionary and food packaging markets that cannot tolerate solvent odor contamination. Additionally, the excellent compatibility and printability of Joncryl ECO polymers makes them an ideal system for next generation inks and overprint varnishes.

## 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 ECO 684.

## 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