

Functional Packaging Coatings

Technical Data Sheet

Joncryl® 82



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| Product Description | Joncryl® 82 is an ultra low VOC, styrene-free acrylic emulsion for functional packaging coating applications. |
| Key Features & Benefits | <ul style="list-style-type: none">- Ultra low VOC- Glycol ether and HAPS free- Styrene free- Unique resistance to water and grease |
| Chemical Composition | Acrylic emulsion |

Properties

| | | |
|---------------------------|--|------------------------|
| Typical Properties | Appearance | translucent emulsion |
| | Molecular weight (Mw) | > 200,000 |
| | Non-volatile | 39.7% |
| | pH | 3.0 |
| | Acid number (NV) | 59 |
| | Viscosity at 25°C (Brookfield #2LV, 60 rpm) | 400 cps |
| | Density at 25°C | 1.03 g/cm ³ |
| | MFFT | < 0°C |
| | Tg | - 10°C |
| | Freeze-thaw stable | No |
| | Total VOC | 0.01% wt |

These typical values should not be interpreted as specifications.

Applications

Joncryl® 82 is a conventional HAPS-free acrylic emulsion made without styrene. Upon neutralization, it forms a tough water- and oil-resistant film with excellent adhesion to a wide variety of paper and polyolefin substrates. It has broad utility in applications where press stability and resolubility are NOT important performance properties.

Joncryl® 82 is recommended for applications such as:

- Functional packaging coating applications

Processing

Joncryl® 82 requires dilution and neutralization before it can be incorporated into alkaline formulations:

- Joncryl® 82 (diluted to 30% NV with water) requires approximately 0.7 parts of ammonium hydroxide (26%) per 100 parts of diluted polymer to achieve pH 7.0
- For additional stability, Joncryl® 82 (diluted to 30% NV with water) can be neutralized and crosslinked with approximately 2.0 parts Zinc Oxide Solution #1 per 100 parts of diluted polymer.

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® 82.

Important

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