

# Printing & Packaging

## Technical Data Sheet

# Joncryl<sup>®</sup> ECO 2188



<b>Product Description</b>	Joncryl <sup>®</sup> ECO 2188 is a hard, non-film forming, glycol ether-free <sup>(1)</sup> acrylic emulsion for printing ink and overprint varnish applications.
<b>Key Features &amp; Benefits</b>	<ul style="list-style-type: none"><li>- Ultra low VOC<sup>(2)</sup></li><li>- High stability in ink systems</li><li>- High gloss</li><li>- Excellent printability and transfer</li><li>- Good compatibility</li></ul>
<b>Chemical Composition</b>	RC acrylic emulsion

<sup>(1)</sup> The glycol ether level in this product averages less than 0.002 weight percent.  
<sup>(2)</sup> The Volatile Organic Compounds (VOC) for this product are below the gas chromatography detection of 0.005 weight percent.

## Properties

<b>Typical Characteristics</b>	Appearance	translucent emulsion
	Molecular weight (Mw)	> 200,000
	Non-Volatile	47.7%
	pH	8.3
	Acid number (NV)	50
	Viscosity at 25°C (Brookfield LVF #2 spindle, 30 rpm)	700 cps
	Density at 25°C	8.7 g/cm <sup>3</sup>
	MFFT	> 80°C
	Tg	98°C
	Freeze-thaw stable	Yes
	Total VOC	< 0.05% wt

These typical values should not be interpreted as specifications.

## Applications

Joncryl<sup>®</sup> ECO 2188 is a hard, non-film forming styrene acrylic emulsion that is glycol ether free with an ultra low VOC. This emulsion provides excellent gloss and holdout in flexo and gravure formulations for paper and paperboard inks, corrugated inks, and high performance overprint varnishes. As a modifier, this product contributes to improved dry speed.

Joncryl<sup>®</sup> ECO 2188 is recommended for applications such as:

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

Joncryl® ECO polymers allow the formulator to develop ultra low VOC, glycol ether-free products to meet stringent industry standards. These polymers provide an 80% reduction in VOC compared to conventional water-based polymers. They are ideal for demanding packaging applications like confectionary or tobacco 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 printing 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.

### Material Safety Data Sheet

All safety information is provided in the Material Safety Data Sheet for Joncryl® ECO 2188.

---

## Important

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, they are provided for guidance only. Because many factors may affect processing or application/use, BASF recommends that the reader make tests to determine the suitability of a product for a particular purpose prior to use. **NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESCRIPTIONS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS.** In no case shall the descriptions, information, data or designs provided be considered a part of BASF's terms and conditions of sale. Further, the descriptions, designs, data, and information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the descriptions, designs, data or information given or results obtained all such being given and accepted at the reader's risk.

*Joncryl is a registered trademark of BASF Group.*

© BASF Corporation, 2010



BASF Corporation is fully committed to the Responsible Care® initiative in the USA, Canada, and Mexico.

For more information on Responsible Care® goto:

U.S.: [www.basf.us/responsiblecare\\_usa](http://www.basf.us/responsiblecare_usa)

Canada: [www.basf.us/responsiblecare\\_canada](http://www.basf.us/responsiblecare_canada)

México: [www.basf.us/responsiblecare\\_mexico](http://www.basf.us/responsiblecare_mexico)

### U.S. & Canada

BASF Corporation  
1609 Biddle Avenue  
Wyandotte, Michigan 48192  
Phone: (800) 231 – 7868  
Fax: (800) 392-7429  
Email: [polyorders@basf.com](mailto:polyorders@basf.com)  
Email: [edtech\\_info@basf.com](mailto:edtech_info@basf.com)  
[www.basf.com](http://www.basf.com)

### Mexico

BASF Mexicana, S.A. de C.V.  
Av. Insurgentes Sur # 975  
Col. Ciudad de los Deportes  
C.P. 03710  
Mexico, D.F.  
Phone: (52-55) 53-25-27-87  
(52-55) 53-25-26-87  
Fax: (52-55) 56-11-48-97