

# Joncryl<sup>®</sup> 2178-E

<b>General</b>	a styrene-acrylic emulsion for use in block resistant water-based inks and overprint varnishes
<b>Key features &amp; benefits</b>	<ul style="list-style-type: none"> <li>■ excellent dry and wet block resistance</li> <li>■ high coefficient of friction</li> <li>■ glycol ether free</li> <li>■ excellent resolubility</li> <li>■ good printability</li> </ul>
<b>Chemical nature</b>	a styrene-acrylic emulsion

## Properties

<b>Appearance</b>	semi-translucent emulsion	
<b>Typical characteristics</b> <i>(should not be interpreted as specifications)</i>	non-volatile	44 %
	molecular weight (wt. av.)	> 200,000
	Brookfield viscosity at 25 °C	700 mPa.s
	pH (25 °C)	8.5
	acid value (on solids)	68 mg KOH/g
	density at 25 °C	1.04 g/cm <sup>3</sup>
	minimum film-forming temperature	< 0 °C
	glass transition temperature T <sub>g</sub> (DSC)	42 °C
	VOC weight (by GC analysis)	< 0.1 %
	glycol ether free	yes
	freeze/thaw-stable	no

## Application

Joncryl<sup>®</sup> 2178-E is a film-forming emulsion with good wet and dry block resistance while providing a high coefficient of friction. This combination of properties makes Joncryl<sup>®</sup> 2178-E a fundamental building block in multiwall bag and beverage carton formulations. It provides excellent gloss, leveling, resolubility and drying speed in flexographic and gravure printing inks and overprint varnishes.

Joncryl<sup>®</sup> 2178-E provides good results in tissue inks when tested in accordance with the EN 646 norm. Due to the high coefficient of friction Joncryl<sup>®</sup> 2178-E is an excellent building block for anti-slip lacquers.

## Typical formulation

glycol ether free overprint varnish

providing good gloss, wet/dry block resistance, excellent resolubility and a high coefficient of friction

93.5 parts	Joncryl® 2178-E
5.0 parts	PE/PP wax emulsion*
1.0 parts	wetting agent
0.5 parts	defoamer
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100.0 parts	

printing ink for paper and paperboard

providing high gloss, wet/dry block resistance, excellent resolubility and fast drying

40.0 parts	Pigment concentrate*
54.5 parts	Joncryl® 2178-E*
5.0 parts	PE/PP wax emulsion*
0.5 parts	defoamer
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100.0 parts	

\* BASF also offers a full range of wax emulsions and dispersion resins.

For further detailed application information please contact our Technical Support Department.

### Safety

When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

### Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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