BASF
The Chemical Company

JONCRYL® ECO 684

a glycol ether free, low molecular weight resin for use in high solids water-based inks and overprint varnishes

Key features and benefits

- glycol ether free
- ultra low VOC
- high gloss
- high solids/low viscosity solutions
- excellent resolubility

General information

Typical physical characteristics (not to be considered specifications)

appearance	clear solid resin
non-volatile	99%
molecular weight (wt. av.)	1,800
acid value (on solids)	244
density at 25 °C (77 °F)	1.16 g/cm^3
glass transition temperature Tg (DSC)	88 °C (190 °F)
VOC, weight %	<1%
glycol ether free	yes

JONCRYL® ECO FOR CLEANER AIR™

P&P JECO684e/01-01-2007/B4-6
supersedes P&P JECO684e/23-03-2004/B4-6

Applications

JONCRYL® ECO 684 is an acrylic resin designed to be used as an extender in overprint varnishes to produce a high gloss finish.

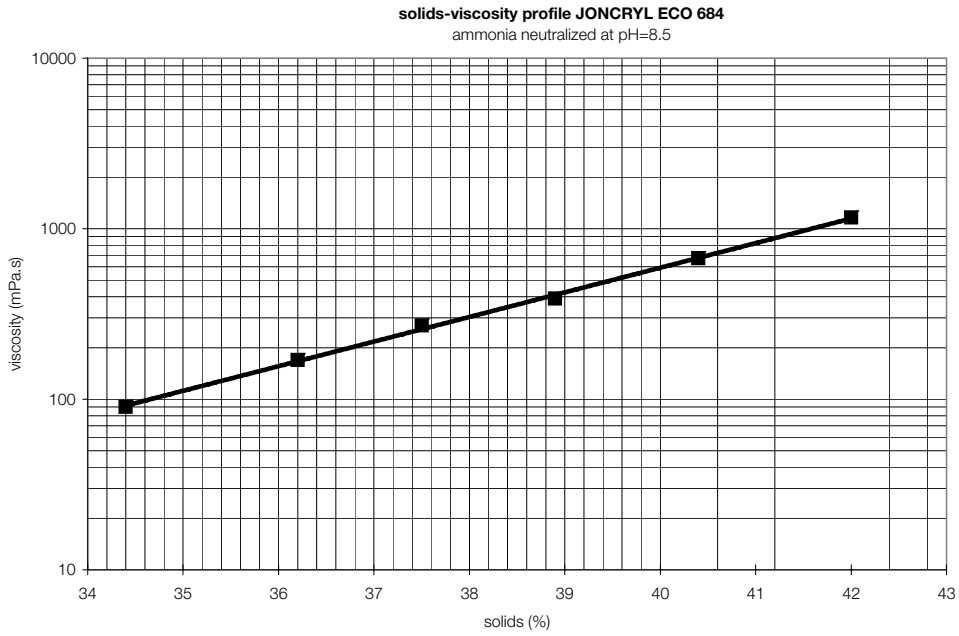
JONCRYL® ECO 684 is glycol ether free and ultra low VOC (less than 1%).
This means a 50% reduction in VOC compared with conventional water-based polymers.

JONCRYL® ECO 684 has been designed as part of the JONCRYL® ECO series of products in response to today's demanding packaging applications, such as the confectionery and tobacco markets which can not tolerate product contamination as a result of retained solvent in the packaging.

JONCRYL® ECO polymers allow the formulator to develop ultra low VOC, glycol ether free products to meet these industry demands. Their excellent compatibility and printability make them an ideal system for the next generation inks and overprint varnishes.

Typical solution of JONCRYL® ECO 684

45.0	parts	JONCRYL® ECO 684	
13.4	parts	ammonia 25%	
41.6	parts	water	
100.0	parts		
		pH	8.5
		viscosity mPa.s (25°C Brookfield)	2500.0



Typical formulations using JONCRYL® ECO 675

high gloss, low VOC overprint varnish

48.0	parts	JONCRYL® ECO 2189
16.0	parts	JONCRYL® ECO 2177
30.0	parts	JONCRYL® ECO 684 solution
3.0	parts	PE wax emulsion*
3.0	parts	wetting agent
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 these products, advice and information given in the safety data sheet must be complied with. Further, protective and workplace hygiene measures adequate for handling chemicals must be observed.

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. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

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