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Joncryl® ECO 684

general	glycol ether free, low molecular weight styrene-acrylic resin for use in high solids water-based overprint varnishes
key features & benefits	glycol ether free
	ultra-low VOC
	high gloss
	high solids/low viscosity solutions
	excellent resolubility
chemical nature	styrene-acrylic resin

Properties

appearance	clear solid resin	
typical characteristics *(should not be interpreted as specifications)*	non-volatile	99 %
	molecular weight (wt. av.)	1,800
	acid value (on solids)	244
	density at 25 °C	1.16 g/cm³
	glass transition temperature Tg (DSC)	88 °C

Application

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

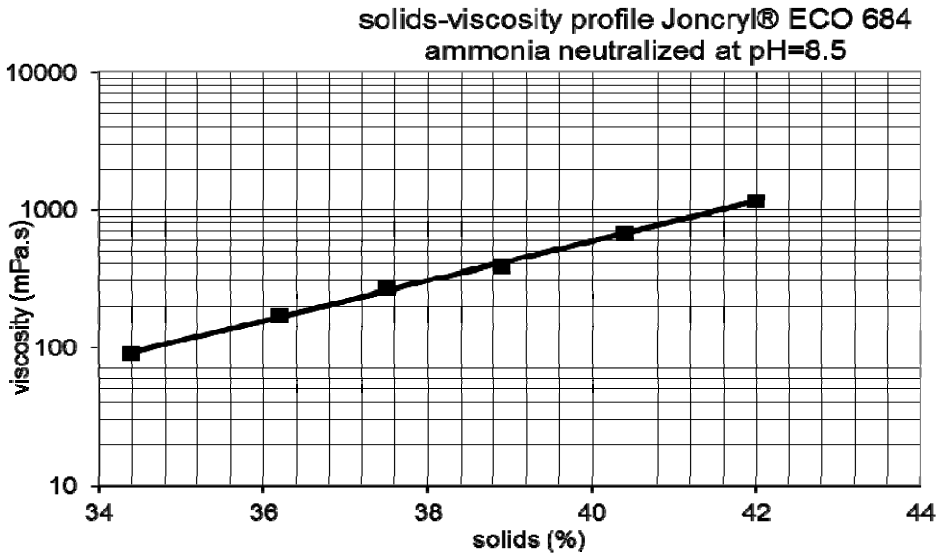
Joncryl® ECO 684 is glycol ether free and ultra-low VOC.

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 cannot 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		
		Viscosity mPa.s (25°C Brookfield)	2,500
		pH	8.5



Typical formulation using Joncryl® ECO 684

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 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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