Technical Data Sheet

Printing & Packaging

Joncryl® 678

general	a resin for use in water-based inks and overprint varnishes
key features & benefits	good color strength development excellent transfer and printability good gloss and hold-out
chemical nature	styrene acrylic solid grade oligomer

Properties

appearance clear solid resin

typical characteristics
(should not be interpreted as specifications)

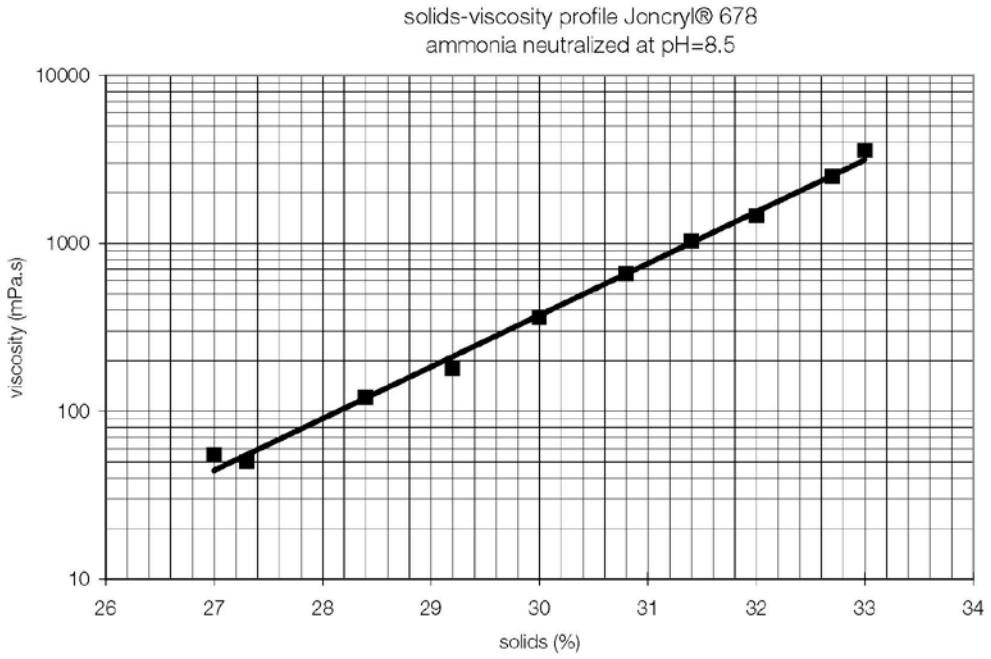
non-volatile	99 %
molecular weight (wt. av.)	8,500
acid value (on solids)	215
density at 25 °C	1.10 g/cm³
glass transition temperature Tg (DSC)	109 °C

Application

Joncryl® 678 is a styrene acrylic resin designed to be used as extender in overprint varnishes and inks and as grinding vehicle to produce water-based pigment dispersions. As extender it provides good gloss and improved transfer and resolubility. In use as dispersion resin it provides good wetting properties for the manufacture of stable pigment dispersions.

Typical solution of Joncryl® 678

32.0	parts	Joncryl® 678	
8.9	parts	ammonia 25 %	
59.1	parts	water	
100.0	parts		
		viscosity mPa.s (25°C Brookfield)	1,750
		pH	8.3



Typical formulations using Joncryl® 678

general purpose OPV

62.5	parts	Joncryl® 90
26.5	parts	Joncryl® 678 solution
2.5	parts	Solvenon® DPM
3.0	parts	Hydropalat® WE 3475
5.0	parts	PE wax emulsion*
0.5	parts	FoamStar® SI 2201
100.0	parts	

pigment concentrate

34.0	parts	Joncryl® 678 solution
35.0	parts	organic pigment
3.0	parts	wetting agent
1.0	parts	FoamStar® SI 2211
27.0	parts	water
100.0	parts	

printing ink for paper and paperboard

43.0	parts	pigment concentrate*
10.0	parts	Joncryl® 678 solution
40.0	parts	Joncryl® 77
0.5	parts	FoamStar® SI 2213
5.5	parts	PE wax emulsion*
1.5	parts	water
100.0	parts	

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

For further detailed application information please contact our Technical Marketing 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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