

JONCRYL[®] HPD 96 DMEA

Key features and benefits

- higher concentrated dispersions
- pigment savings
- excellent rheology and transfer
- superior color development
- gloss and transparency
- improved stability with letdown emulsions

a high performance dispersion resin solution for high concentrated pigment dispersions to be used in water-based inks

General information

Typical physical characteristics (not to be considered specifications)

appearance	clear solution
non-volatile	26.8%
molecular weight (wt. av.)	16,500
viscosity at 25 °C (77 °F) (Brookfield)	400 mPa.s
pH	8.4
acid value (on solids)	242
density at 25 °C (77 °F)	1.07 g/cm ³
glass transition temperature T _g (DSC)	105 °C (221 °F)
freeze/thaw-stable	yes

Applications

JONCRYL® HPD 96 DMEA is a high molecular weight, high acid value resin solution specifically designed to optimise the grinding of pigments while still offering excellent ink stability. Dispersions made with JONCRYL® HPD 96 DMEA exhibit excellent rheology properties. This allows for higher pigment loadings, which are a trend in the industry. Due to its superior color development capability it is often possible to achieve equal color strength at reduced pigment levels.

Optimised HLB and chain flexibility

The styrene acrylic resin backbone of JONCRYL® HPD 96 DMEA has been carefully modified to optimise both the hydrophilic/lipophilic balance and the chain flexibility. This results in enhancement of both the rate and degree of adsorption on the pigment surface, a vital combination of characteristics needed for dispersing particles to their primary particle size.

Each pigment class, or even each pigment surface is different and potentially needs a special dispersant for optimised results. JONCRYL® HPD 96 DMEA is demonstrating excellent results with a broad range of surfaces like lithol rubines and phthalocyanine blue.

Typical formulations using JONCRYL® HPD 296 DMEA

	A	B	C
lithol rubine 57:1	40.0	-	-
phthalo blue 15:3	-	45.0	-
carbon black	-	-	40.0
JONCRYL® HPD 296 DMEA	37.1	41.7	37.1
antifoam	0.5	0.5	0.5
water	<u>22.4</u>	<u>12.8</u>	<u>22.4</u>
	100.0	100.0	100.0

* 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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