



# Product Data Sheet

## NeoCryl® A-1091

NeoCryl® A-1091 is a modified styrene copolymer dispersion for use in Over Print Varnish and water based Liquid Inks with excellent printability and transparency. NeoCryl® A-1091 is free of glycol ethers and contains less than 0.1% of organic solvent, giving the opportunity to formulate low odour and low VOC printing inks and OPV's.

Delivery form: 45 % solids in water.

### Product characteristics

- Type - Anionic, modified styrene dispersion  
 Neutralising agent - Ammonia  
 Freeze/thaw stability - Stable

### Film properties

- High gloss, clear and transparent
- High heat resistance
- Hard and block resistant
- Good release of film wrappings
- Ultra low odour and taint impact in packaging applications

### Recommendations for end-use

- Overprint varnishes and inks
- Inks and topcoats for pre-print applications
- Let down vehicle for gloss and hardness improvement

### Formulating guidelines

- NeoCryl® A-1091 is a non-film forming dispersion at room temperature
- To achieve low VOC OPV's and Inks, optimal film formation can be obtained by addition of low MFT acrylic emulsions or solutions

### Regulatory data sheet / Food contact

Specific information on compliance to food contact regulations is detailed in the regulatory data sheet, available on request.

### Product specifications

Property	Range	Unit	GAP
Appearance	hazy white liquid		0059
Total solids w/w	44 - 46	%	0001
pH	8.1 - 8.5		0016
Visc. Brookfield 25°C	100 - 400	mPa.s	0020

### Other product data

Property	Value	Unit	GAP
MFFT	> 80	°C	0011
Density 20°C	± 1.04	kg/l	0006
Free monomer	Max. 500	ppm	0118
VOC (theoretical)	< 0.1	%	
Acid value (on solid)	± 62	mgKOH/g	0095
Preservative(s):			
BIT (casno. 2634-33-5)	0.027	%	0222

### Test methods

Test methods (GAP) referred to in the table(s) are available on request.

### Storage guidelines

The resin should be stored indoors in original, unopened, undamaged container in a dry place at storage temperature between 5- 40 °C. Exposure to direct sunlight should be avoided.

### Shelf life

Under above mentioned storage conditions, the shelf life of the resin will be 12 months ex work.

### Material safety

A Material Safety Data Sheet for this product is available on request.

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