Printing & Packaging

Technical Data Sheet

Joncryl[®] 611



Applications

Joncryl[®] 611 is a mid-range molecular weight, film forming, solvent-soluble acrylic resin capable of maintaining high solids at low viscosity in solvent-based formulations. It allows formulators to manufacture high solids, solvent-based inks with good gloss and color development. This resin has excellent compatibility with nitrocellulose and other resins. In addition, it may be used as a sole resin or in conjunction with other modifying resins to meet the desired ink performance properties.

Joncryl[®] 611 is recommended for applications such as:

Printing ink applications

BASE

The Chemical Company

Solvent	Appearance	NV (%)	Viscosity (cps)	
Methyl Ethyl Ketone	S	40	10	
Methyl Isobutyl Ketone	S	40	10	
Acetone	S	40	10	
Xylene	S	40	190	
1,1-Trichloroethane	S	40	1,025	
Ethyl Acetate	S	40	20	
Isopropyl Acetate	S	40	20	
n-propyl Acetate	S	40	40	
Ethanol 3A	IS	40	-	
Isopropyl Alcohol	IS	40	-	
n-Propyl Alcohol	SH	40	110	
Ethanol 3A/Ethyl Acetate (1:4)	S	40	20	
Ethanol 3A/Ethyl Acetate (2:3)	S	40	25	
Ethanol 3A/Ethyl Acetate (3:2)	S	40	30	
Ethanol 3A/Ethyl Acetate (4:1)	IS	40	-	
n-Propanol/n-Propyl Acetate 80/20	S	50	50	
n-Propanol/n-Propyl Acetate 90/10	SH	40	58	
n-Propanol/n-Propyl Acetate 95/5	SH	40	62	
Toluene	S	40	150	

S = Soluble, IS = Insoluble, SH = Slightly hazy

Safety

General The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Material Safety Data Sheet All safety information is provided in the Material Safety Data Sheet for Joncryl[®] 611.

Important

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U.S. & Canada

BASF Corporation 1609 Biddle Avenue Wyandotte, Michigan 48192 Phone: (800) 231 – 7868 Fax: (800) 392-7429 Email: polyorders@basf.com Email: edtech_info@basf.com www.basf.us/dpsolutions

Mexico

BASF Mexicana, S.A. de C.V. Av. Insurgentes Sur # 975 Col. Ciudad de los Deportes C.P. 03710 Mexico, D.F. Phone: (52-55) 53-25-2756 Fax : (52-55) 57-23-3011

Printing & Packaging

Technical Data Sheet

Joncryl[®] ECO 684



Applications

Joncryl[®] ECO 684 is a low molecular weight, glycol ether-free acrylic resin that allows the formulation of high solids overprint varnishes with excellent gloss and holdout. High solids, low viscosity solutions of Joncryl[®] ECO 684 are possible due to its low molecular weight.

Joncryl[®] ECO 684 is recommended for applications such as:

• Overprint varnishes for packaging applications

D = BASF

The Chemical Company





Joncryl[®] ECO polymers allow the formulator to develop ultra low VOC, glycol ether-free products to meet industry standards. These polymers provide an 80% reduction in VOC compared to conventional water-based polymers. They are ideal for demanding packaging applications like the confectionary and tobacco markets that cannot tolerate solvent odor contamination. Additionally, the excellent compatibility and printability of Joncryl[®] ECO polymers makes them an ideal system for next generation inks and overprint varnishes.

	Safety
General	The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.
Material Safety Data Sheet	All safety information is provided in the Material Safety Data Sheet for Joncryl [®] ECO 684.

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U.S. & Canada

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PARALOID™ B-72 100%

PARALOID[™] B-72 100% is a general-purpose, thermoplastic acrylic resin with soft film-forming capabilities, possessing a high tolerance for ethanol and a low reactivity with sensitive phosphorescent and luminescent.

Used in:

- → Art conservation and preservation
- → Clear coatings for wood
- Applications not tolerant of strong solvents
- → Flexographic printing inks
- Grawre plastic coatings
- → White and metallic aerosols
- Other film-forming materials, such as vinyls, cellulosics, chlorinated rubbers, and silicones

Advantages:

- Low reactivity with sensitive phosphorescent and luminescent pigments
- → Superior stability and durability
- → High tolerance for ethanol
- -> Clear, coherent film formation
- Excellent non-yellowing characteristics
- Highly compatible with other film-forming materials

Typical Properties			**** **
These properties are typical but do not cons	stitute specific	ations.	
Physical Form		Pellets	
Bulk Density, 25°C, lb/gal		9.6	
Solubility Parameter		9.3	
Tg (°C)	5	40	
Ultimate Hardness of Clear Films, KHN		10 to 11	
Chemical Composition	EMA Copolymer		

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PARALOID[™] B-72 100% Solid Grade Thermoplastic Acrylic Resin

Description

PARALOID B-72 general-purpose thermoplastic acrylic resin is similar to PARALOID B-66 acrylic resin but capable of forming softer films. The approximate hardness (KHN) is 10-11 ccmpared to 12-13 for PARALOID B-66 resin.

PARALOID B-72 acrylic resin is unique in possessing a high tolerance for ethanol. The property allows its use in applications not tolerant of strong solvents. The alcohol dispersions may be cloudy or milky. However, they form clear, coherent films.

PARALOID B-72 has low reactivity with sensitive phosphorescent and luminescent pigments to produce stable, durable, non-yellowing coatings. It is compatible with vinyls, cellulosics, chlorinated rubbers, and silicones. It is well suited for white and metallic aerosols, clear coatings for wood, nitrocellulose modified coatings for general product finishing, pigment dispersion (fluorescent), flexographic printing inks, and gravure plastic coatings.

Solubility

Information about the solvent compatibility of PARALOID B-72 acrylic resin can be found in Rohm and Haas brochure 82A114—PARALOID Solid Grade Resins, Solvent Selection Chart.

Typical Properties

These properties are typical but do not constitute specifications.

Pellets	
9.6	
9.3	
40	
10 to 11	
EMA Copolymer	

Properties in White Lacquers*							
Tukon Hardness 30 min. at 180°F 30 min. at 300°F	2.9 12.1	Whiteness (K color low numbers 30 min. at 300°F 16 hrs. at 350°F	best) 7.7 11.8	Cross Hatch ³ 30 min. at 180°F 30 min. at 300°F	0 0		
Pencil Hardness 30 min. at 180°F 30 min. at 300°F	H H	Flexibility ² , 1/8, 1/4, 1 inch mandrels 30 min. at 180°F 30 min. at 300°F	0, 0, 0 4, 3, 2	Mustard Staining (30 minute exposure) 30 min. at 180°F 30 min. at 300°F	Light Light		
Gloss, 20° 30 min. at 180°F 30 min. at 300°F	77 76	Printing, 2 psi for 1 hour at 140°F 30 min. at 180°F 30 min. at 300°F	V. Heavy Moderate	Gasoline Resistance (15 minute exposure) 30 min. at 180°F 30 min. at 300°F	Wipes Off Wipes Off		
Gloss, 60° 30 min. at 180°F 30 min. at 300°F	93 92	Knife Adhesion 30 min. at 180°F 30 min. at 300°F	Very Good Very Good	Spray Conditions Viscosity, No. 4 Ford C Solids Content, %	up, sec. 15 25.0		