

LITHOGRAPHIC INK VARNISH

INTRODUCTION

EBECRYL® 871 is an energy curable polyester acrylate. This varnish was developed for use in lithographic inks, and can be used in both the pigment dispersion and letdown portions of the ink. Inks made with EBECRYL® 871 exhibit good color development and excellent printability.

PERFORMANCE HIGHLIGHTS

- Excellent pigment wetting
- Good water balance
- Excellent printability
- Good reactivity
- Low misting

SUGGESTED APPLICATIONS

EBECRYL® 871 is recommended for wet or dry offset inks. It is compatible with other polyester or epoxy acrylates and can be used in conjunction with specialty polyesters such as EBECRYL® 436 and 438 to promote adhesion to plastics and provide film integrity.

TYPICAL TACK RANGES

Oligomer / Reactive diluent	Tack, g-m
EBECRYL® 871	12-14
EBECRYL® 871/5% OTA 480	7-11
EBECRYL® 871/10% OTA 480	6-8
EBECRYL® 871/5% TRPGDA	7-11
EBECRYL® 871/10% TRPGDA	6-8

400 RPM, 90°F, 3 minutes; Thwing-Albert Electronic Inkometer

SPECIFICATIONS

Acid Value, mg KOH/g	max. 12.5
Appearance	Clear amber liquid
Color, Gardner	max. 10
Viscosity, 25°C, mPa.s	48000 - 57000

TYPICAL PROPERTIES

Oligomer tack, gram-meters (g-m)	12 - 14
Functionality, theoretical	6
Density, g/cm³ at 25°C	1.1

PRECAUTIONS

Before using EBECRYL® 871, see the Safety Data Sheet (SDS) for information on the identified hazards of the material and the recommended personal protective equipment and procedures.

STORAGE AND HANDLING

Care should be taken not to expose the product to high temperature conditions, direct sunlight, ignition sources, oxidizing agents, alkalis or acids. This might cause uncontrollable polymerization of the product with the generation of heat. Storage and handling should be in stainless steel, amber glass, amber polyethylene or baked phenolic lined containers. Procedures that remove or displace oxygen from the material should be avoided. Do not store this material under an oxygen free atmosphere. Dry air is recommended to displace material removed from the container. Wash thoroughly after handling. Keep container tightly closed. Use with adequate ventilation.

See the SDS for the recommended storage temperature range for EBECRYL® 871.