

GRINDING VEHICLE FOR UV INKJET

INTRODUCTION

EBECRYL® 151 is a pigment grinding vehicle for energy curable inkjet inks. When used in conjunction with EBECRYL® 152 (a letdown vehicle), jettable, stable inks are obtained for use in drop-on-demand piezo inkjet systems.

PERFORMANCE HIGHLIGHTS

- Produces low viscosity pigment dispersions and inks; inks are about 30 mPa.s at 25°C
- Suitable for grinding pigments in a bead mill
- Low odor
- High reactivity
- Good adhesion to treated plastics and coated papers
- Cured ink has high gloss, and good scratch and solvent resistance
- Results in inks with easy priming, no face plate wetting, no nozzle loss with continuous printing, good stability and jettable, no satellite formation, and no dot gain

SUGGESTED APPLICATIONS

EBECRYL® 151 is recommended as a pigment grinding vehicle for drop-on-demand piezo inkjet head systems. Inks based on EBECRYL® 151 are well suited to the following markets: banner and outdoor, POP, labels and packaging, fleet markings, decorative printing and other large format inkjet applications.

STARTING POINT FORMULATION

COMPONENT	PBW
Pigment	15 - 25
EBECRYL® 151	75 - 85
Stabilizer	0.5 - 0.1
Additives	0.2 - 0.5

Please refer to the Technical Bulletin for EBECRYL® 151 and EBECRYL® 152 for more detailed information.

SPECIFICATIONS

Appearance	Clear liquid
Color, Gardner	max. 5
Viscosity, 25°C, mPa.s	50 - 150

TYPICAL PHYSICAL PROPERTIES

Density, g/cm ³ at 21.5°C	1.09
Solids, %	100
Surface tension, Du Noüy, mN/m ⁽¹⁾	38.6
⁽¹⁾ mN/m = dynes/cm	

PRECAUTIONS

Before using EBECRYL® 151, 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® 151.