

### MODIFIED EPOXY ACRYLATE OLIGOMER

#### INTRODUCTION

EBECRYL® 641 is an amino modified epoxy acrylate with high flexibility and high reactivity.

EBECRYL® 641 is especially recommended to produce UV flexo and screen inks with good flow, high gloss and high reactivity.

When used in overprint varnishes, the flexibility and the adhesion to difficult substrates including oxidative off-set prints will be improved.

#### PERFORMANCE HIGHLIGHTS

EBECRYL® 641 is characterized by:

- medium viscosity
- light colour
- high reactivity

UV cured inks and varnishes based on EBECRYL® 641 are characterized by the following properties:

- high flexibility
- very good adhesion to plastic substrates
- very good solvent resistance

#### TYPICAL VALUE

Cone and plate viscosity at 25 °C, Pa.s	21
Colour, Gardner	max. 2
HDDA content, %	max. 8

#### PHYSICAL PROPERTIES

Density, g/cm <sup>3</sup>	1.15
Molecular weight, theoretical, g/mol	1800
Functionality, theoretical	2

#### TYPICAL CURED PROPERTIES

EBECRYL® 641 can be diluted with reactive diluents such as 1,6-hexanediol diacrylate (HDDA)<sup>(1)</sup>, trimethylolpropane triacrylate (TMPTA)<sup>(1)</sup>, tripropyleneglycol diacrylate (TPGDA)<sup>(1)</sup> and oligotriacrylate (OTA 480)<sup>(1)</sup>. The specific reactive diluent(s) used will influence performance properties such as hardness and flexibility.

<sup>(1)</sup> product of allnex

#### PRECAUTION

The following is a summary of the precautions to be taken when handling this product. Please refer to the Safety Data Sheet for further details.

Appropriate precautions should be taken to avoid eye and skin contact and to avoid inhalation of the aerosols or vapours. Consult the relevant Safety Data Sheet for appropriate handling procedures and protective equipment prior to using this or any other material referred to in this bulletin.

See Safety Data Sheet for emergency and first aid procedures.

#### STORAGE AND HANDLING

Care should be taken not to expose radiation curable products to temperatures exceeding 40°C for prolonged periods or to direct sunlight. This might cause uncontrollable polymerization of the product with generation of heat.

Storage and handling should be in stainless steel, amber glass, amber polyethylene or baked phenolic lined containers. Do not store this material under an oxygen free atmosphere. Use dry air to displace material removed from the container. This material should not be stored for more than 1 year.