EBECRYL® MPDDA

Technical Datasheet

3-METHYL-1,5-PENTANEDIOL DIACRYLATE

INTRODUCTION

EBECRYL® MPDDA is a difunctional monomer which polymerizes when exposed to sources of free radicals. This difunctional acrylated monomer is particularly useful in inks and coatings where improved elasticity, weathering and adhesion are desired in combination with an excellent water resistance.

PERFORMANCE HIGHLIGHTS

EBECRYL® MPDDA is characterized by:

- Very low viscosity
- Good oligomer diluent
- Light colour

UV/EB cured products based on EBECRYL® MPDDA are characterized by the following performance properties:

- Excellent weathering
- Good cure response at low cross-link density
- Good adhesion
- Good water resistance

SUGGESTED APPLICATIONS

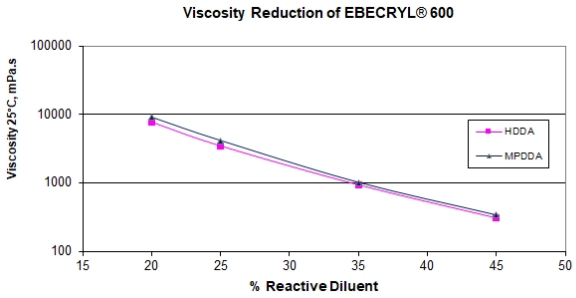
EBECRYL® MPDDA finds application in UV/EB cured inks and coatings systems. EBECRYL® MPDDA is especially useful in applications where improved adhesion (particularly to plastics), improved elasticity or weathering, are desired.

TYPICAL VALUES

Appearance	clear liquid
Dynamic viscosity at 25°C, mPa.s	4 - 8
Colour, Apha	max. 100
Acid value, mg KOH/g	max. 0.40

TYPICAL PHYSICAL PROPERTIES

Density, g/cm³	1.009



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 2 years.

See Certificate of Analysis (CoA) for the actual shelf life of EBECRYL® MPDDA.

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.

The toxicological properties of this material have not been fully determined. Products of this type can be expected to be eye and skin irritant and have the potential to cause sensitization or other allergic responses. 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.

STATUTORY LABELING

For Statutory Labeling information, please refer to Safety Data Sheet.