

EPOXY ACRYLATE OLIGOMER IN SOLVENT

INTRODUCTION

EBECRYL® 609 is a bisphenol A epoxy diacrylate oligomer diluted with 15% of butyl acetate. EBECRYL® 609 is characterized by its light colour and medium viscosity. Films of EBECRYL® 609 cured by ultraviolet light (UV) or electron beam (EB) exhibit high gloss and high surface hardness and the excellent solvent resistance typical of an epoxy resin.

PERFORMANCE HIGHLIGHTS

EBECRYL® 609 is characterized by:

- Light colour
- Medium viscosity

UV/EB cured products based on EBECRYL® 609 are characterized by the following performance properties:

- High surface hardness
- High gloss

The actual properties of UV/EB cured products also depend on the selection of the other formulation components, such as reactive diluent(s), additives and photo initiators.

SUGGESTED APPLICATIONS

Formulated UV/EB curable products containing EBECRYL® 609 may be applied by lithographic, screen, gravure, direct or reverse roll, and curtain coating methods.

EBECRYL® 609 is recommended for use in:

- Overprint varnishes
- Lithographic and screen inks
- Coatings for paper, paperboard, wood chipboard and rigid plastics
- Paper upgrading
- Fast cure coatings
- Laminating adhesives
- Wood sealers and top coats

TYPICAL VALUES

Appearance	clear liquid
Höppler viscosity at 25°C, mPa.s	± 3250
Colour, Gardner	max. 2

PHYSICAL PROPERTIES

Density, g/cm ³	0.995
Molecular weight, theoretical	500
Functionality, theoretical	2
Polymer solids, % by weight	85
Butyl acetate, % by weight	15

TYPICAL CURED PROPERTIES

Tensile strength, MPa	96
Tensile elongation, %	7
Glass transition temperature, °C	67

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.

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.