

EBECRYL[®] 570

Technical Data Sheet

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Chlorine Free Diluted Polyester Oligomer

INTRODUCTION

EBECRYL[®] 570 is a chlorine free polyester resin diluted with EBECRYL[®] 40 ⁽¹⁾. This resin provides good adhesion to plastic substrates. Films of EBECRYL 570 cured by ultraviolet light (UV) or electron beam (EB) have low odour. EBECRYL[®] 570 is not EBECRYL LEO grade resin.

PERFORMANCE HIGHLIGHTS

EBECRYL[®] 570 is characterized by:

- Light colour
- Good adhesion to plastics substrates such as PE, PP, PET, PC and PVC
- Low odour

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

SUGGESTED APPLICATIONS

EBECRYL[®] 570 is recommended for use in:

- Sensitive applications such as food packaging (Compliant with Nestlé acrylate criteria)
- Over Print Varnishes for plastic and metallic substrates

Formulated UV/EB curable products containing EBECRYL 570 may be applied by flexography, dry offset, screen, gravure, direct or reverse roll, and curtain coating methods.

TYPICAL VALUES

Appearance	clear liquid
Density, g/cm ³	1.2
Viscosity at 25°C, mPa.s	± 47000
Colour, Apha	< 200
Acid value, mg KOH/g	± 20
Hydroxyl value, mg KOH/g	± 40
Residual AA, ppm	< 1000
Residual solvent, ppm	< 100

VISCOSITY REDUCTION

EBECRYL 570 can be diluted with reactive monomers such as 1,6 hexanediol diacrylate (HDDA)⁽¹⁾, trimethylolpropane triacrylate (TMPTA)⁽¹⁾, tripropyleneglycol diacrylate (TPGDA)⁽¹⁾ and oligotriacrylate (OTA 480)⁽¹⁾. The specific reactive diluent(s) used will influence performance properties such as odour, adhesion, hardness and flexibility.

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 after production date.

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PRECAUTIONS

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 LABELLING

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

(1) EBECRYL[®] 40, HDDA, TMPTA, TPGDA and OTA 480 are produced by Cytec Surface Specialties.

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