

AM-322M

1,6-Hexanediol Dimethacrylate HDDMA

INTRODUCTION

AM-322M is a methacrylate monomer with low viscosity and strong dilution capability. It offers low shrinkage and high storage stability, along with excellent heat resistance and weatherability. It is commonly used as a methacrylate crosslinking monomer in adhesives, inks, coatings, and other UV/EB curing systems.

TYPICAL VALUES

Tg(°C)	55
Functionality	2
Surface tension Dynes	34.3
Colour, Gardner	1
Refractive Index	1.456
Acid value,mg KOH/g	max. 0.5
Viscosity at 25 °C ,cPa.s	4-9

APPLICATION

UV Coatings

AM-322M is commonly used in coatings, where it provides excellent substrate adhesion and good weatherability. Due to its methacrylate structure, the cured film offers relatively high hardness and abrasion resistance, while curing shrinkage remains low. It is suitable for coating systems that require high dimensional accuracy. It also shows good chemical resistance to acids, alkalis, and most organic solvents. Typical applications include plastic coatings, metal coatings, and wood coatings.

UV Inkjet

When used at a low dosage, AM-322M can reduce system viscosity and improve pigment wetting.

UV Adhesives

AM-322M provides good adhesion and is suitable for reactive adhesives and sealant systems.

UV Inks

As a commonly used methacrylate crosslinking monomer, AM-322M provides good adhesion and chemical resistance. It is suitable for printing ink systems requiring high hardness and abrasion resistance.

INTERMISCIBILITY

Monomers:

Good solubility with various types of monomers.

Solvents:

Compatible with conventional organic solvents.

Polymers:

Fully compatible with pure acrylic, polyester, epoxy, acrylic, and other resins. The formulation can be adjusted according to application requirements.