

FM-372

烷氧化甲氧基丙烯酸酯 UV 单体

INTRODUCTION

FM-372 is a monofunctional methoxy acrylate UV monomer, yet its curing speed approaches that of trifunctional acrylate monomers. It exhibits excellent curing performance under LED light sources, yielding a glossy, dry-to-touch film. With ultra-low viscosity, high toughness, and low volumetric shrinkage, it offers outstanding adhesion to various inorganic substrates such as metals and glass, as well as to engineering plastics.

TYPICAL VALUES

Tg(°C)	-24
Functionality	1
Surface tension Dynes	37
Colour, Gardner	2
Refractive Index	1.450
Acid value,mg KOH/g	max. 1
Viscosity at 25 °C ,cPa.s	5

APPLICATION

UV Coatings:

As a methoxy UV monomer in coatings, FM-372 maintains the low shrinkage characteristic of monofunctionality while providing a relatively high crosslink density, significantly improving adhesion. It is recommended as the main monomer in solvent-free UV coatings to rapidly reduce formulation viscosity and enhance adhesion to various substrates as well as intercoat adhesion.

UV Inkjet:

Recommended as the primary film-forming material, it is compatible with LED light sources and can directly adhere to various substrates and coated surfaces for printing, delivering excellent overall surface performance.

UV Adhesives:

Recommended for use in combination. It offers low shrinkage, which becomes more pronounced at higher adhesive layer thicknesses, along with fast curing and good low-temperature resistance.

UV Inks:

Suitable as a blending component, with strong dilution capability and adhesion promotion. Recommended as the main dissolving monomer for pure acrylic resins.

INTERMISCIBILITY

Monomers: Excellent solubility with various monomers.

Solvents: Miscible with all common organic solvents.

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

Packaging: Available in 20 kg and 200 kg drums.

更详尽的应用参考资料及 MSDS 备索……