

FM-373

烷氧化甲氧基丙烯酸酯 UV 单体

INTRODUCTION

FM-373 is the fastest-curing monofunctional methoxy acrylate UV monomer. It achieves film formation and curing speeds under low-energy conditions that exceed those of trifunctional acrylate monomers such as TMPTA. It exhibits excellent curing performance under LED light sources, producing bright, glossy, and dry-to-touch films. With extremely low viscosity and low volumetric shrinkage, it provides tough and strong film properties in planar printing and 3D printing applications.

TYPICAL VALUES

Tg(°C)	5
Functionality	1
Surface tension Dynes	35
Colour, Gardner	2
Refractive Index	1.450
Acid value,mg KOH/g	max. 1
Viscosity at 25 °C, cPa.s	5

APPLICATION

UV Coatings:

FM-373 methoxy UV monomer, when used in coatings, retains the low shrinkage characteristic of monofunctional monomers while offering a relatively high crosslinking density and outstanding fast-curing capability. It is recommended as the primary monomer in solvent-free UV coatings to rapidly reduce formulation viscosity and improve curing performance under low film thickness and low-energy conditions.

UV Inkjet:

Recommended as a main film-forming component, it is compatible with LED light sources and can be directly printed onto various substrates and coated surfaces, delivering excellent overall surface performance.

UV Adhesives:

Recommended for use as a blend component. It offers low shrinkage, which becomes even more pronounced at higher adhesive layer thicknesses. It cures quickly and exhibits good weatherability.

UV Inks:

Used as an auxiliary component, it provides strong diluting power and promotes adhesion. Recommended as the primary dissolving monomer for pure acrylic resins.

INTERMISCIBILITY

Monomers: Excellent solubility with all types of monomers.

Solvents: Compatible with all conventional organic solvents.

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

Packaging Specifications: 20 kg and 200 kg per drum.

更详尽的应用参考资料及 MSDS 备索……